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# DRAFT SUMMARY REPORT AND CONCEPTUAL RI/FS WORK PLAN OUTLINE

#### **FOR**

ROCKAWAY BOROUGH WELL FIELD SITE
OPERABLE UNIT #3
FOR PROPERTY OF
KLOCKNER & KLOCKNER
ROCKAWAY BOROUGH, NEW JERSEY

#### SUBMITTED TO:

USEPA - REGION II EMERGENCY & REMEDIAL RESPONSE DIVISION NEW YORK, NEW YORK

#### **SUBMITTED BY:**

THE WHITMAN COMPANIES, INC. EAST BRUNSWICK, NEW JERSEY

ON BEHALF OF KLOCKNER & KLOCKNER

IN ACCORDANCE WITH:

ADMINISTRATIVE ORDER ON CONSENT INDEX NO. II-CERCLA-95-0104

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Michael N. Metlitz

Project Manager

Ira L. Whitman, Ph.D., P.E.

Principal Consultant

44 West Ferris Street, East Brunswick, New Jersey 08816

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- 6. NJDEP-BFO Inspection Reports for Masden Industries
- 7. NJDEP Incident Report



# DRAFT SUMMARY REPORT AND CONCEPTUAL RI/FS WORK PLAN OUTLINE FOR

# ROCKAWAY BOROUGH WELL FIELD SITE OPERABLE UNIT #3 FOR PROPERTY OF KLOCKNER & KLOCKNER ROCKAWAY BOROUGH, NEW JERSEY

#### 1.0 <u>INTRODUCTION</u>

This draft Summary Report and Conceptual RI/FS Study Work Plan Outline has been prepared pursuant to Chapter VIII, Paragraph 27 of the Administrative Order on Consent (AOC) and Task I, Item C of the Statement of Work (SOW) (USEPA, 1995) entered into by Klockner & Klockner and the United States Environmental Protection Agency (EPA). This draft Summary Report and Conceptual RI/FS Study Work Plan Outline has been prepared by The Whitman Companies, Inc., environmental consultants, on behalf of Klockner & Klockner.

The purpose of this draft Summary Report and Conceptual Remedial Investigation/Feasibility Study (RI/FS) Work Plan Outline is to:

- compile all existing and relevant data associated with the Rockaway Borough Wellfield Site Operable Unit #3 at Block 5, Lots 1 and 6, and Block 7, Lot 7, in the Borough of Rockaway (Klockner Property) which will be utilized to determine additional data needs to characterize soil contamination at the Klockner Property, better define potential applicable or relevant and appropriate requirements (ARARs) and develop a range of preliminarily identified remedial alternatives; and
- identify and conceptually describe the major elements of the RI/FS Work Plan required for the RI/FS for soil at the Klockner Property.

#### 1.1 Report Organization

This draft Summary Report and Conceptual RI/FS Study Work Plan Outline is organized as follows:

- Section 1 this section presents the purpose of the draft Summary Report and Conceptual RI/FS Study Work Plan Outline, the Klockner Property location and the organization of the draft Summary Report and Conceptual RI/FS Study Work Plan Outline.
- Section 2 this section presents a history of the Site and Klockner Property, a description of the conditions at the Klockner Property, review of Sanborn Maps and aerial photographs, and a synopsis of previous investigations conducted at the Klockner Property.
- Section 3 this section presents information concerning hazardous substances present on the Klockner Property and a summary of the findings of past environmental investigations of the Klockner Property.
- Section 4 this section presents the conceptual RI/FS Work Plan outline for the investigation of soil contamination at the Klockner Property.
- Section 5 this section presents references.

The tables and figures are located in the tabulated sections identified as "Tables" and "Figures."

#### 1.2 Klockner Property Location

The Klockner Property is located at the intersection of Stickle Avenue and Elm Street in the north end of the Borough of Rockaway in Morris County, New Jersey. The Klockner Property is a portion of the Rockaway Borough Well Field Site (Site), which itself encompasses approximately 2.1 square miles. See Figure 1.1 for the Klockner Property location on a U.S.G.S. Dover, N.J. quadrangle. A site map of the Klockner Property is included as Figure 1.2.

The Rockaway Borough well field is located approximately 600 feet southwest of the Klockner Property. The location of the Rockaway Borough well field and the Klockner Property are indicated on Figure 1.3.

The Klockner Property consists of two separate properties. One of the properties is located north of Stickle Avenue and is currently owned by Klockner & Klockner. This portion of the Klockner Property has been known for several years as the Building 12 Property, and will be referred to as such in this report. The second portion of the Klockner



Property is located south of Stickle Avenue and consists of two separate lots. Lot 7 is currently owned by Norman Iverson and operated by F.G. Clover Co. Lot 8 is currently owned by Klockner & Klockner and is used as parking for Building 12 tenants. This portion of the Klockner Property has been known as the Building 13 Property and will be referred to as such in this report.

Lot 8 of the Building 13 Property historically has been associated with Lot 7 and the operations there on. Accordingly, Lot 8 will be discussed as part of the Building 13 Property, eventhough it is now owned by Klockner & Klockner.

The Building 12 property consists of 1.34 acres. The majority (approximately 93%) of the Building 12 property is covered by building structures and pavement. The building structure consists of approximately 50,000 square feet of one and two story space used for manufacturing, office space and storage. The Building 12 Property is bordered to the south by Stickle Avenue, to the west by Oak Street and residential housing, to the north by Ford Road and to the east by Elm Street.

Lot 7 of the Building 13 property consists of approximately 1.07 acres, and Lot 8 consists of approximately 0.5 acres. There are two building structures present on the Building 13 property. The building coverage of the site is approximately 12,400 square feet. Approximately 50% of the property is covered by building structures and pavement. The Building 13 Property is bordered to the north by the Building 12 Property (across Stickle Avenue), to the west by residential properties (across Elm Street), to the south by residential property, and to the east by a railroad line.

#### 2.0 BACKGROUND

#### 2.1 Site History

The Site is a municipal well field that serves approximately 10,000 people. The Rockaway Borough's three water supply wells (#1, 5 and 6) draw water from an unconsolidated glacial aquifer from a depth ranging from 54 to 84 feet below grade. The supply wells are located off of Union Street and are southwest of the Klockner Property.

Contamination of the Site was first discovered in 1979. The primary contaminants identified were Trichloroethylene (TCE) and Tetrachloroethylene (PCE). Several inorganic contaminants, including Chromium, Lead and Nickel, were also identified. In December 1982, the Site was placed on the EPA's National Priorities List of Superfund sites.

A Phase I RI/FS Study (SAIC, 1986) and Phase II RI/FS (ICF, 1991a and b) were subsequently conducted. Through these studies, the Klockner Property was identified as one of the source areas of the Site contamination.

The remediation of the plume of groundwater contamination originating from the Klockner Property area is being addressed by Thiokol Corporation pursuant to a Consent Decree entered into between it and EPA. An RI/FS Study of contaminated soils at the Klockner Property is being addressed by Klockner & Klockner through the October 1995 AOC and SOW.

#### 2.2 Historic Ownership and Operations at Klockner Property

#### 2.2.1 Building 12

In 1947, Block 5, Lot 6 of the Building 12 property was purchased by Daniel and Martha Klockner and Thomas and Blanche Heathcote (Klockner & Klockner's Predecessors). In 1963, the general partnership of Klockner & Klockner was formed and the ownership of Block 5, Lot 6 passed to it. In 1964, ownership of Block 5, Lot 1 of the Building 12 property was obtained by Klockner & Klockner. Block 5, Lot 1 of the Building 12 property was residentially developed property prior to its purchase by Klockner & Klockner in 1964. All of the Building 12 property is currently owned by Klockner & Klockner.

The building structures present on the Building 12 property were constructed in four phases. The years of construction were 1946, 1948, 1962/1963, and 1964 (GTI, 1986). The year of construction for each portion of the building is indicated on Figure 2.1.

From approximately 1949 to 1970, the Building 12 property was leased to Reaction Motors, Inc., a division of Morton Thiokol, Inc., predecessor to Thiokol Corporation. (Thiokol Corporation and its predecessors are referred to herein as "Thiokol.") Thiokol used the Building 12 property as a machine tool shop for manufacturing rocket engine parts.

In 1970, the building was subdivided and leased to a number of different tenants, including Carbone Ferraz, Inc. ("Carbone"), which used the facility for assembling fuses, and Masden Industries/Multi-Form Metals, Inc. ("Masden/Multi-Form"), which used the facility for manufacturing various glass, metal, and electrical components. A chronological breakdown of tenants at the Building 12 property is presented in Table 2.1.

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### 2.2.2 Building 13

In 1944, the Building 13 property was conveyed from Standard Oil to Klockner & Klockner's Predecessors.

From approximately 1949 to 1970, the Building 13 property was leased to Reaction Motors, Inc., a division of Morton Thiokol, Inc. Thiokol used the Building 13 property for manufacturing rocket engine parts. There are two building structures present on the Building 13 property. The buildings were referred to by Thiokol as Building 13 and Building 14 (Figure 2.2). Thiokol's operations in Building 13 included a machine shop and metal finishing process. Thiokol's operations in Building 14 included compressed air and power distribution, and pump testing.

From 1970 to 1981 Building 13 was leased to Carbone. Carbone used the facility for the manufacture of electric fuses. Operations involved the assembly of finished parts.

The Building 13 property was apparently subdivided into Lots 7 and 8 in 1981. In 1981, Lot 7 of the Building 13 property was conveyed from Klockner & Klockner to Norman Iverson. Mr. Iverson is the current owner of the Lot 7 Building 13 property. From 1981 to the present, Lot 7 of the Building 13 property has been occupied by F.G. Clover Co. F.G. Clover Co. is also owned by Mr. Iverson. F.G. Clover performs metal spinning and metal stamping operations. Klockner and Klockner has retained ownership of Lot 8 of the Building 13 property. Lot 8 is used for parking for the Building 12 tenants.

#### 2.3 Sanborn Insurance Maps

To determine site history prior to the 1950's, Sanborn Insurance Maps were obtained for the years 1924, 1944 and 1951. Sanborn Insurance Maps include information on building structures and use. Copies of the maps are included as Figure 2.3, 2.4 and 2.5.

# 1924 Sanborn Insurance Map

The 1924 Sanborn Insurance Map indicates that Lot 1 of the Building 12 property contains dwellings and Lot 6 is undeveloped. The western portion of Building 13 property is undeveloped. The eastern portion is occupied by Standard Oil Co. Two aboveground oil tanks and four building structures are present.



# 1944 Sanborn Insurance Map

The 1944 Sanborn Insurance Map indicates no change in use for the Building 12 property since 1924. Standard Oil Co. is no longer present on the Building 13 property. The aboveground oil tanks are no longer present. Two building structures are present that are labeled "Open and Vac." A section of railroad siding is present on the east side of the Building 13 property.

#### 1951 Sanborn Insurance Map

The 1951 Sanborn Insurance Map indicates that Lot 6 of the Building 12 property and the Building 13 property have been developed and are being operated by Reaction Motors, Inc., for the manufacture of rocket motors. Building 12 is identified as a machine shop with concrete floors and steam heat from fuel oil. Building 13 is identified as an office building with concrete floors and steam heat from fuel oil. Building 14 is identified as a cafeteria. A railroad siding is present on the east side of the Building 13 property. Lot 1 of the Building 12 property remains in residential use.

#### 2.4 Aerial Photographs

Aerial photographs where reviewed for the years 1940, 1951 and 1966. Aerial photographs provide information on property use and structures. Copies of the aerial photographs are included as Figures 2.6, 2.7 and 2.8.

# 1940 Aerial Photograph

The 1940 aerial photograph indicates the presence of row houses on Lot 1 of the Building 12 property. Lot 6 of the Building 12 property is undeveloped. A long thin building is located on the Building 13 property at the future location of Building 13. A second building is located at the location of Building 14. There appear to be three vertical aboveground storage tanks. The property appears to be unpaved with a centrally located dirt driveway to Stickle Avenue.

# 1951 Aerial Photograph

The 1951 aerial photograph indicates the presence of row houses on Lot 1 of the Building 12 property. A majority of Lot 6 is covered by a building structure (Building 12, Areas B and C). The future location of Building 12, Area E, appears to be used for outdoor storage and loading.



Building 13 and 14 are present on the Building 13 property. A railroad siding is present on the east side of the property. The area south of Building 13 appears to be a paved parking area. There does not appear to be any outdoor storage on the Building 13 property.

## 1966 Aerial Photograph

A 1966 aerial photograph of the Building 12 property was reviewed. The aerial photograph indicated the presence of all of the current Building 12 structures. Lot 1 no longer contains row houses. It is now partially covered by Building 12, Area A and the quonset hut. The remainder appears to be unpaved. The storage of drums is evident in the area north of Building 12, Area A.

#### 2.5 Site Conditions

#### 2.5.1 Site Geology/Hydrogeology (FE, 1989c)

Based on regional studies conducted by the NJDEP for the Rockaway Borough and Township well fields, the Klockner Property lies within a region in which the geology is characterized as consisting of glacial till deposited over shallow bedrock. However, valley fill deposits have been found to include other materials. The Klockner Property is situated on the remnants of the terminal moraine that developed during the Wisconsin glaciation. In addition, stratified and unstratified drift, alluvial deposits, and lacustrine silts and clays were found to be present in the typical lithologic section at the site. These glacial sediments may be as thick as 150 feet in the area.

Two distinct aquifers have been defined, which are referred to herein as the shallow and deep aquifers. These aquifers are separated by a silty-clay confining unit. Examination of the data collected during the drilling and geologic sampling for site investigations, pursuant to the New Jersey Environmental Cleanup Responsibility Act (ECRA), shows that the Klockner Property is underlain with a layer of surficial fill materials that range in thickness from 2 to 8 feet. The fill materials are generally composed of sands, silts, clays and some gravel. Underlying the fill is a yellow or tan sandy alluvial deposit which forms the shallow aquifer. The saturated thickness of the sandy alluvium is as great as 10 feet and appears to thin toward the north. This unit acts as the water table aquifer beneath most of the site.

The sandy alluvium lies on an irregular surface of lacustrine, laminated silt and clay which ranges in thickness from about 10 to over 20 feet. The top of this silty clay unit



slopes toward the surface at the north end of the Klockner Property and rises above the elevation of the water level in the shallow aquifer. In this area the alluvium thins to about 4 feet and becomes unsaturated. The contact between the alluvium and the lacustrine sediments is often detected as a color change from yellow or tan to gray which accompanies the lithologic change. As indicated by the approximate 9 foot head difference between the shallow and deep aquifer water levels, the lacustrine sediments form an areally extensive confining unit between the shallow and deep aquifers beneath the Klockner Property. The lithologic character of the confining unit ranges from sandy silt to silty clay.

Beneath the silty-clay confining unit is the thickest and most permeable unit of the valley-fill deposits which forms the deep aquifer. The materials encountered during drilling of the deep wells on the Klockner Property were reworked glacial till including silt, sand, coarse gravel, cobbles and boulders. Groundwater levels in the deep aquifer generally rise above the top of the aquifer, indicating that the unit is semi-confined locally although it has been depicted as the water table aquifer elsewhere. A cross section of the subsurface geology is provided in Figure 2.9.

#### 2.5.2 Topography/Drainage

The southern portion of the Building 12 property is covered by building structures. The northern portion of the Building 12 property is paved and slopes to the south. The southern portion of Lot 7 of the Building 13 property slopes to the southwest, and the northern portion slopes to the north. The Lot 8 portion of the Building 13 property is relatively flat with an increase in elevation on the east end. The Klockner Property is located at an elevation of 520 to 525 feet above mean sea level. A survey of the Klockner Property topography is provided in Figure 2.10.

In general, Building 12's drainage is collected in storm sewer catch basins and storm drains which discharge to the Borough of Rockaway storm sewer system. Building 13's drainage is collected in an on site storm sewer catch basin and catch basins located on Stickle and Elm Street which discharge to the Borough of Rockaway storm sewer system. The storm sewer system discharges to the former Morris Canal, located approximately 800 feet south of the Klockner Property. The former Morris canal drains into the Beaver Brook. The Beaver Brook is located approximately 1,000 feet east of the Klockner Property. The Rockaway River is located approximately 1,800 feet southeast of the Klockner Property. The site location on the U.S.G.S. Dover, New Jersey Quadrangle is indicated on Figure 1.1. Access has not been approved for the Building 13 interiors at this time. Information concerning the interiors of Building 13 will be included in our next submission, provided that access is obtained prior to that time.

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#### 2.6 Previous Investigations

#### 2.6.1 Investigation of the Site

In 1985, a Borough of Rockaway Well Field Site Phase I RI/FS Study (SAIC, 1986) was conducted for the New Jersey Department of Environmental Protection (NJDEP). The Phase I RI/FS concluded that the groundwater contamination at the Site was derived from multiple locations in the Borough of Rockaway. One of the locations identified was the Klockner Property.

A Phase II RI/FS Study (ICF, 1991a and 1991b) was conducted for the EPA. The Phase II RI/FS concluded that groundwater in the northeast portion of Rockaway Borough is contaminated with Volatile Organic Compounds (VOCs) and inorganic compounds. The primary contaminants are TCE, PCE and metals. The Klockner Property was identified as a source of the VOCs groundwater contamination that impacted the Borough of Rockaway Well Field, particularly supply well #6.

The remediation of the plume of groundwater contamination originating from the Klockner Property area is being addressed by Thiokol through a Consent Decree with EPA. Thiokol is currently conducting activities necessary to design the remedial treatment system for the remediation of the plume of groundwater contamination originating from the Klockner Property area.

# 2.6.2 Investigation Under the New Jersey Environmental Cleanup Responsibility Act (ECRA) - Building 12 Property

In August 1985, ECRA was triggered by the pending sale of the Building 12 property. The operations of two tenants, Service Metal Fabricating (ECRA Case #85552) and Masden Industries/Multiform Metals (ECRA Case #85551) were subject to ECRA. As a result of the ECRA trigger, a comprehensive environmental investigation of the Building 12 Property ensued, under NJDEP review and oversight.

In November 1985, the ECRA Site Evaluation Submission (SES) for Masden Industries was submitted to NJDEP. The SES included a Sampling and Analysis Plan for the Building 12 property. The report identified areas of potential environmental concern, including three underground heating oil tanks. The tanks are identified as Tanks #1, #2, and #3. Tanks #1 and #2 were 1,000 gallons in capacity, and tank #3 was 5,000 gallons in capacity. Soil sampling around each of the tanks was proposed. The Sampling and

Analysis Plan was revised on December 3, 1985 based on NJDEP comments issued on November 21, 1985.

On December 23, 1985, the Service Metal Fabricating facility was inspected by the NJDEP ECRA case manager (Ground/Water Technology, Inc. [GTI], 1986 Appendix B). No deficiencies were noted. The presence of chromium solutions was indicated. All that remained to close the Service Metal Fabrication ECRA Case was the submittal of a Negative Declaration. The Masden Industries facility was also inspected on December 23, 1985. Eleven deficiencies and actions to be taken were noted (NJDEP, 1985) (Attachment 1).

Two additional areas of potential environmental concern were identified prior to the commencement of the Sampling and Analysis Plan. These areas were the storm sewer catch basins on the north side of the facility and the 1,000 gallon underground waste oil tank. The catch basin was identified due to the presence of drum storage in this vicinity as noted in the December 23, 1985 NJDEP Site Inspection Report. The waste oil tank contents were sampled and analysis indicated the presence of TCE at 92%.

The three underground heating oil tanks and the waste oil tank were removed in April 1986. Post-excavation soil samples were collected from the excavations by GTI and delivered to ICM Laboratory (ICM) (New Jersey Certified Laboratory #14116) for the appropriate analysis. The sediments were removed from the catch basins. A sample of the sediment was delivered to ICM for appropriate analysis.

On May 22, 1986, additional soil excavation was conducted at two of the heating oil tank locations and the waste oil tank location based on the April 1986 post-excavation sample results. All of the excavated contaminated soils were properly disposed off-site. Post-excavation soil samples were collected from the excavations by GTI and delivered to ICM Laboratory for the appropriate analysis.

The analytical results for the sampling activities were submitted to NJDEP on June 25, 1986. On September 11, 1986, NJDEP issued comments recommending the installation of both shallow and deep monitoring wells to investigate the potential impact of the waste oil tank on groundwater quality.

The results of the April and May 1986 sampling activities and a proposal for further sampling activities were submitted to NJDEP in the November 1986 Sampling Plan (Revised) (GTI, 1986). No further actions were proposed for the three heating oil tank excavations. An integrity test was proposed for the storm sewer system followed by



excavation if the system leaked. The investigation of groundwater was proposed based on the results of the waste oil tank excavation activities.

The November 1986 revised Sampling Plan was approved by NJDEP in a letter dated March 5, 1987. The storm sewer was integrity tested and found to leak. A fifth underground storage tank was found and subsequently excavated during August 1987. The tank contained gasoline and had a capacity of 550 gallons. Post-excavation samples were collected and indicated no further action was necessary for this area. Groundwater monitoring wells were installed in April and June 1987 by Moretrench Environmental Services (MES). The wells were sampled during the period of June 30 to July 2, 1987. A second round of groundwater sampling was conducted on August 7 and August 10, 1987. The analytical results indicated the presence of VOCs, primarily TCE and USEPA Priority Pollutant Metals (Metals).

The results of the approved November 1986 revised Sampling Plan activities and a proposal for further sampling activities were reported to NJDEP in the October 1987 Sampling Plan Results (MES, 1987). No further action was proposed for the gasoline tank excavation. The further investigation of groundwater contamination and soil sampling at the storm sewer system were proposed.

During October 1987, a fourth deep monitoring well was installed. Soil samples for laboratory analysis were collected from the well boring to determine the vertical distribution of VOCs contamination in soil below the water table. The monitoring well was sampled for laboratory analysis on November 25, 1987.

In November 1987, an engineering construction drawing for a degreaser pit located in Building 12 was found. The pit was located and field head space samples were analyzed from the sub-base below the pit with a portable gas chromatograph. The results were inconclusive.

On December 14, 1987, a former leaching pit was uncovered and soil samples were collected for laboratory analysis. The leaching pit was located at the southwest corner of the Building 12 property.

On April 15, 1988, NJDEP issued comments concerning the October 1987 Sampling Plan Results. NJDEP required the installation of additional monitoring wells to further delineate groundwater contamination. In August 1988, an ECRA Sampling Plan Addendum was submitted to NJDEP by First Environment on behalf of Klockner & Klockner in response to NJDEP's April 15, 1988 comments.

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On October 26, 1988, the storm sewer system was exposed and investigatory soil samples were collected for laboratory analysis.

During November 1988, a fifth and sixth shallow monitoring wells were installed. All of the on-site shallow monitoring wells were sampled for laboratory analysis in December 1988.

On June 8, 1989, a conditional approval of the August 1988 ECRA Sampling Plan Addendum was issued by NJDEP.

During February 1989, contaminated soils detected at the former leaching pit and one of the storm sewer catch basins were excavated. Post-excavation soil samples were collected and the soils were properly disposed off-site.

During August 1989, a Sampling Results report and At Risk Sampling results report (First Environment [FE], 1989a & b) were submitted to NJDEP by First Environment on behalf of Klockner & Klockner. The results of the remediation of the storm sewer system and leaching pit were provided. No further actions were proposed for these two areas. The further investigation of the degreaser pit area was proposed. The results of the groundwater investigation and proposal for a groundwater pump test were provided.

On September 18, 1989, a response to NJDEP's June 8, 1989 comment letter was submitted to NJDEP by First Environment on behalf of Klockner & Klockner.

On September 21, 1989, soil samples were collected from the soil beneath the degreaser pit for VOCs laboratory analysis. No contamination was detected.

During August and September 1989, four additional monitoring wells (2 shallow and 2 deep) and two shallow piezometers were installed. The monitoring wells were sampled on September 25 and September 27, 1989 for VOCs laboratory analysis. A pump test of the shallow aquifer beneath the Building 12 property was conducted from October 26, 1989 to November 7, 1989.

On November 13, 1989, NJDEP issued a letter requesting submittal of an ECRA withdrawal affidavit as there no longer existed an ECRA trigger at the Building 12 property, due to the termination of negotiations for the sale of the Building 12 property.

In December 1989, a Sampling Results report (FE, 1989c) was prepared by First Environment for Klockner & Klockner. It was indicated that the former use of the 300061

degreaser pit had not impacted underlying soils. The results of the September 1989 groundwater sampling the October/November 1989 shallow aquifer pump test were presented. First Environment concluded that the principal source of TCE groundwater contamination appeared to be the alleyway where the waste oil tank had been located. First Environment concluded that the principal source of PCE contamination was from an off-site source located south of the Building 12 property.

On January 12, 1990, NJDEP issued a letter requesting submittal of the groundwater sampling results (Attachment 2). The letter also provided a conditional approval of the August 1989 Sampling Plan Addendum. The conditions included a requirement to resample the gasoline tank excavation for VOCs analysis by EPA Method 624 and remediate PHC contaminated soil at catch basin #2 of the storm sewer system.

# 2.6.3 Investigation Following Withdrawal from the New Jersey Environmental Cleanup Responsibility Act (ECRA) - Building 12 Property

Klockner & Klockner continued the investigation of sources of TCE contamination after withdrawing from ECRA. The activities conducted were directed toward identifying and delineating potential TCE and PCE source areas. The areas investigated included the degreaser pit area, the alleyway between the quonset hut and the Masden Industries leasehold, the quonset hut and the southwest loading dock area. A majority of the sampling activities involved the use of field screening for VOCs vapors with a Photovac 10S50 or 10S70 portable gas chromatograph (GC). Field screening was conducted in accordance with NJDEP's "Field Delineation of Volatile Contamination Using Ambient Temperature Head Space Analysis." The investigation was conducted by First Environment.

On July 24, 1990, soil samples for laboratory analysis were collected from the scale room and alleyway. Metal chips were observed in the alleyway and sampled to identify the composition of the chips. The chips were identified as aluminum.

During December 1991 and January 1992, several rounds of soil vapor field sampling and soil samples for laboratory analysis were collected from the degreaser pit area, the alleyway, the quonset hut and scale room.

#### 2.6.4 Building 13 Property

Sampling has been conducted at the Building 13 property as part of the 1986 and 1991 RI/FS's conducted for the Site and by NJDEP during tank removal activities conducted by F.G. Clover.

A soil gas survey was conducted by Tracer Research Corporation during October 1985 as part of the Phase I RI/FS for the Site (SAIC, 1986). One of the sixty-two locations sampled included the Building 13 property. The results indicated that the Building 13 property was a potential source of the PCE groundwater contamination.

A deep monitoring well (SAI-07) was installed on Lot 8 of the Building 13 property as part of the Phase I RI/FS for the Site. The well has been sampled several times as part of the Phase I and Phase II RI/FS activities for the Site. The contaminant of concern identified in this well was TCE. A shallow monitoring well (FG-1) was installed on the Building 13 property by F.G. Clover. Sampling of this well was conducted as part of the Phase II RI/FS. Both PCE and TCE were detected in FG-1.

During October 1986, F.G. Clover removed two underground heating oif tanks. The tanks had capacities of 500 and 1,000 gallons. NJDEP personnel visited the site on October 9, 1986 (NJDEP, 1986a). A 1,000 gallon dry well, which had been installed by F.G. Clover for its waste process water, was identified during the site visit. Process waste water was discharged to the dry well. NJDEP collected a sample from the dry well and from one of the excavated tanks for laboratory analysis. The analytical results indicated the presence of organic compounds, but no TCE or PCE was detected. The dry well was subsequently removed from service by F.G. Clover. Monitoring well FG-1 was installed to investigate this area under NJDEP oversight. Mr. Iverson indicated that based on groundwater sample results, NJDEP did not require any further remedial activities.

#### 3.0 **SUMMARY REPORT**

#### 3.1 Hazardous Substance Use at Klockner Property

Hazardous substances have been used in the current and past operations present at the Klockner Property (Figure 3.1). Information concerning hazardous substance use was obtained from the following sources:

- Responses to EPA Forms 104 (e)
- Randolph Township Department of Health Industrial Surveys of 1980/81
- Right to Know Forms
- ECRA files for Masden Industries
- Site inspection on November 7, 1995

#### 3.1.1 Building 12 Property

From approximately 1949 to 1970, the Building 12 property was leased to Reaction Motors, Inc., a division of Morton Thiokol, Inc. Thiokol used the Building 12 property as a machine tool shop for manufacturing rocket engine parts (Figure 3.2). Substances used by Thiokol included TCE and cutting oils (Archer, 1991). TCE was used in a degreasing unit which held approximately 100 gallons. The waste cutting oil drippings from metal shavings were collected in a drain in the former scale room which discharged to an underground storage tank. The metal shavings were placed in drums and stored outside the building prior to pick up for off-site reclamation. Thiokol claimed that the tank was 550 gallons in capacity and was installed in the location where Tank #3 subsequently was discovered. Thiokol also indicated that the waste cutting oil from the machinery and the waste TCE were placed in 55 gallon drums for off-site disposal. The drums of waste materials were stored outside the building. A 1966 aerial photograph indicates a significant quantity of drums being stored north of the building.

In 1970, the building was subdivided and leased to a number of different tenants. A breakdown of tenants at the Building 12 property is presented in Table 2.1. Information about hazardous substances used by many of the tenants is not available, although the type of operations of those tenants indicates minimal use, if any, of hazardous substances. The tenants for which information concerning hazardous substance use is available include Masden Industries, Carbone Ferraz, Service Metal Fabricating, Write-Mark Sales, May Architectural Woodworking and Morton Hahn. A description of hazardous substance use by these tenants is presented below.

#### Masden Industries

Masden Industries manufactured several products at the facility during its tenure at the Building 12 property from 1974 to 1993. Operations included the manufacture of glass-to-metal seals for the electronic component industry, glass bubble tubes for Christmas ornaments and a reserve energizer for battery systems, graphite and metal fixtures for the electronic component industry, and the fabrication of intricate wire forms (Masden, 1985) (Figure 3.3).

The hazardous substances used by Masden at the Klockner property included acids, bases, methylene chloride, ethylene glycol, TCE and methanol. Lists of hazardous substances historically present at the Masden Industries area are included Attachment 3. The lists include those generated for the Borough of Rockaway, the EPA, 1989 Right to Know Form, 1993 ECRA submission and NJDEP's investigation of hazardous substances



stored in a shed formerly located in the alleyway. Most of the mentioned lists are for materials disposed.

Cutting oils and lubricants were used for machining operations. The manufacture of Christmas lights involved the use of methylene chloride, ethylene glycol, sodium metaborate and sugar. No waste methylene chloride or ethylene glycol was generated during the conduct of this operation because it was used up in the process (Maraziti, 1992). Scrap metal generated by Masden was collected in drums for off-site reclamation.

TCE was used in a vapor degreaser for the metal stamping operation conducted from 1976 to approximately 1982. One 55 gallon drum of TCE was used every 6 months (Randolph, 1980). The degreaser used approximately 5 gallons of TCE at a time. The TCE was stored in a 55 gallon drum next to the degreaser. The degreaser was located on the east wall of the area leased to Masden. Any sludge generated in the degreaser was placed in an empty drum stored next to the degreaser and returned to the vendor (Maraziti, 1992). The Randolph Township Department of Health Industrial Survey for Multiform Metals (Masden Industries) dated January 8, 1981 indicated that twelve empty TCE drums were removed from the site 6 months prior to the survey. The survey indicated the presence of 20 empty drums at the rear of the premises.

# Carbone Ferraz, Inc.

Carbone leased space at both the Building 12 and Building 13 properties. Carbone leased the Building 12 property from 1978 to 1981, and the Building 13 property from approximately 1971 to 1981. Carbone assembled fuses from partially finished parts. Some limited machining operations were also conducted (Covington, 1991). Metal parts included silver, copper and brass.

Hazardous substances associated with Carbone's operations included lubricating and cutting oils and PCE. Small quantities of dielectric plating solutions containing silver, nickel and tin were purchased in small jars and used for touch up plating of defects in purchased plated parts (Covington,1992). A small apparatus for the hand plating was housed in a cabinet in Building 12. Limited quantities of lubricating and cutting oils were used for machining operations. The oils and spent oils were stored in drums.

PCE was used to clean equipment. Carbone estimates that it purchased and used 55 gallons of PCE a year. The PCE was stored in a 55 Gallon drum located in Carbone's maintenance shop (Covington, 1991) or near the loading dock area in Building 12 (Covington, 1992). PCE may have also been purchased in smaller containers than drums.



A small quantity of PCE would be placed into a coffee can to clean equipment. The equipment was located indoors on concrete floors. The equipment would be cleaned with a rag or a brush dipped into the coffee can of PCE. Rags were discarded into the regular plant trash. The cans were covered between uses and reused until the PCE was depleted. When depleted, the cans would be refilled or when residue or grease built up in the can, the can was discarded into the plant trash.

Machining of metal parts created metal scrap and chips. These materials were collected in drums and placed in the storage area next to the loading dock in Building 12. The storage area was located indoors on a concrete floor. The scrap metal was removed from the property by a metal recycler.

The industrial survey conducted in 1981 by the Randolph Township Department of Health indicated the use of Power Cleaner for metal degreasing. The material was reported to be an organic solvent, not a chlorinated solvent. Sodium silicate and potassium silicate was also noted as being present. All of these materials were reported to be contained in 55 gallon drums.

# Service Metal Fabricating

Service Metal Fabricating has been present at the Building 12 property since 1982. Operations were originally located in Area C of Building 12. Some time after 1985, the operations were expanded to include the quonset hut and a portion of Area B. When Masden ceased operations in 1993, Service Metal Fabricating expanded its operations into Area A.

Service Metal Fabricating operations include the machining and welding of metal parts. A majority of the metals machined are steel and stainless steel. Small quantities of lubricating and hydraulic oils are used by Service Metal Fabricating. In general, 10 gallons of oil are purchased at a time in 5 gallon containers. Occasionally, projects utilizing aluminum require application of a rust inhibitor. Four small rectangular tanks are used for this process. The tanks consist of a wash tank, two rinse tanks and a treatment tank. The treatment tank contains Iradite which contains chromium conversion. The water in the tanks is replenished as needed. The Iradite is stored in a 5 pound container located next to the tank and is added to the treatment tank as needed. The liquids in the tanks are very infrequently changed. When changed, the material is removed by an outside contractor and properly disposed off-site. Small containers of maintenance products including paints and paint thinners are stored in flammables storage cabinets located in the quonset hut. Small



quantities of waste oil generated from changing the oil in trucks and compressors is transported to a local gas station for proper disposal.

Scrap steel is collected in a dumpster located at the north end of the alleyway. The steel is cut with lasers and cutting oils are not used. The steel is removed from the site for off-site recycling.

#### Write-Mark Sales

Write-Mark Sales operations involve the warehousing and sales of prepackaged office products. Write-Mark Sales has been present in Building 12 since 1988. It does not appear that hazardous substances are used by Write-Mark Sales.

## May Architectural Woodworking

May Architectural Woodworking (May) operations involve the manufacture of kitchen cabinets. May's operations have been present on the second floor of Area C since 1993. Hazardous substance use in May's operations include paints, wood stains and lacquer thinner. A permitted paint booth is located at the south end of May's leasehold. A paint storage closet is located adjacent to the paint booth. Usually less than 5 gallons of paint and ½ gallon of lacquer thinner are used in a typical weeks operation. These materials are stored in quart, 1 gallon and 5 gallon containers. A dumpster for trash is kept in the building.

#### Morton Hahn, Inc.

Morton Hahn, Inc. imports tropical shells and other nature products for distribution. Morton Hahn, Inc has leased space in Building 12 since 1979. Morton Hahn, Inc.'s operations do not appear to involve the use of hazardous substances.

#### 3.1.2 Building 13 Property

From approximately 1949 to 1970 the Building 13 property was leased to Reaction Motors, Inc., a division of Morton Thiokol, Inc. Thiokol used the Building 13 property for manufacturing rocket engine parts. Thiokol's operations in Building 13 included a machine shop and metal finishing process. Operations in Building 14 included compressed air and power distribution, and pump testing. Information concerning hazardous substances used on the Building 13 property by Thiokol was not available. Based on the type of operations



conducted it is likely that cutting, lubricating and hydraulic oils and degreasing solvents were used.

From 1970 to 1981 Building 13 was leased to Carbone. Carbone used the facility for the manufacture of electric fuses. Carbone's use of hazardous substances are discussed in section 3.1.1 above.

From 1981 to the present, the Building 13 property has been occupied by F.G. Clover Co. F.G. Clover Co. is owned by the current property owner, Mr. Iverson. F.G. Clover performs metal spinning and metal stamping operations. An inspection of F.G. Clover's operations has not yet been conducted as an access agreement for the building interiors has not been reached. The exterior of the F.G. Clover property has been inspected. Further information concerning F.G. Clover's operations will be included in our next submission.

The 1994 Right to Know Survey for F.G. Clover indicates the presence of acetylene, nickel and copper sheets and Safety-Kleen solvent. The use of trisodium phosphate and small amounts of lubricants at the site was indicated in an NJDEP inspection report dated October 16, 1986 (NJDEP, 1986a). The results of samples collected by NJDEP from a dry well located on the property indicated the presence of VOCs and BNs (Attachment 4), F.G. Clover's response to the EPA 104(e) form indicated the use of Safety Kleen 105/140 Solvent (Clover, 1990). An EPA Notification of Hazardous Waste Activity form completed by F.G. Clover indicates the generation of FOO1 (chlorinated solvents), FOO2 (chlorinated solvents), U210 (PCE), U228 (TCE), D039 (PCE) and D040 (TCE) hazardous wastes.

#### 3.2 Results of Previous Site Investigation Activities

The presence of soil contamination and groundwater contamination has been investigated at the Klockner Property through activities associated with the Site Phase I and Phase II RI/FS, ECRA compliance at the Building 12 property, investigation for the purpose of Rockaway Borough litigation at the Building 12 property, and NJDEP investigations at the Building 12 and 13 properties. The following areas of potential environmental concern were identified during the previous site investigation activities:

#### **Building 12 Property**

- Underground Heating Oil Tanks
- Underground Gasoline Tank
- Underground Waste Oil Tank
- Storm Sewer System



- Leaching Pit
- Degreaser Pit
- Alleyway
- · Scale Room
- · Quonset Hut
- Loading Dock Area
- Groundwater
- Other

# **Building 13 Property**

- · Underground Heating Oil Tanks
- · Dry Well
- · Soil Gas Survey
- Groundwater

A summary of the findings in each of the areas listed above is provided below.

# 3.2.1 Heating Oil Tanks - Building 12 Property

Three underground fuel oil tanks (two 1,000 gallon and one 5,000 gallon) were excavated in April 1986 (GTI, 1986). The tank locations are indicated as Tank #1, Tank #2, and Tank #3 on Figure 3.1. Post-excavation soil samples were collected from the tank excavations for PHC analysis. PHC analysis indicated that additional soil removal was required at two of the tank locations to meet the NJDEP cleanup criteria at the time of 100 ppm. The highest PHC level detected was 480 ppm. Additional soil was excavated in May 1986 and post-excavation soil samples for PHC were collected. The post-excavation sample results were below 100 ppm for PHC. No further action was required by NJDEP. The analytical results are presented in Tables 3.1, 3.2 and 3.3. The sample locations are indicated on Figure 3.4.

#### 3.2.2 Underground Gasoline Tank - Building 12 Property

A 550 gallon underground gasoline tank was found between Tanks #1 and #2. This tank was excavated during August 1987 (MES, 1987). Post-excavation samples were analyzed for VOCs by EPA Method 503.1. The results were None Detected for all of the sample locations. NJDEP's January 18, 1990 comment letter required resampling in two locations for VOCs by EPA Method 624. The requested samples have not been collected.



The analytical results are presented in Table 3.4. The sample locations are indicated on Figure 3.4.

#### 3.2.3 Waste Oil Tank - Building 12 Property

The waste oil tank (Tank #4) was located adjacent to Tank #3 in an alleyway (Figure 3.1). The material contained in this 1,000 gallon tank was sampled for VOCs and Polychlorinated Biphenyls (PCBs) and was found to contain 92% Trichloroethylene (TCE). Oily water was also present in the tank when it was removed. The tank was excavated in April 1986 (GTI, 1986). The excavation was 7 feet deep. It was estimated that about 1 to 2 gallons of TCE spilled into the excavation during the tank removal. The spilled material was removed. Six post-excavation soil samples were collected from the excavation for PHC and VOCs analysis. PHCs were detected above the NJDEP cleanup criteria of-100 ppm in three of the sample locations. The highest PHC level detected was 470 ppm. VOCs were detected in 3 of the post-excavation samples at levels ranging from 1.49 to 6.14 ppm. The NJDEP cleanup criteria at the time was 1 ppm for total VOCs.

Additional excavation was conducted in May 1986 to a depth of 12 feet. Three post-excavation samples were collected down the centerline of the excavation for PHC and VOCs analysis. The PHC samples were all below 100 ppm. The VOCs samples were none detected in two and 1 ppm in one location. No further actions were proposed with respect to soil contamination based on the analytical results. Water was seeping into the excavation at a depth of 9 feet. Two samples of the water were collected for VO+15 analysis. One sample contained 0.208 ppm, and the other 1.99 ppm of TCE, PCE, and 1,2-DCE combined. The analytical results are presented in Table 3.5. The analytical results for TCE and PCE are presented in Table 3.6. The sample locations are indicated on Figure 3.4.

No further action with respect to soil contamination was required by NJDEP for the tank excavation.

The investigation of the groundwater quality included monitoring well installation and sampling in the vicinity of the waste oil tank excavation. Metals and VOCs were detected in the shallow groundwater above NJDEP's current Groundwater Quality Standards (GWQS), N.J.A.C. 7:9-6. Base/Neutral Extractable Compounds (BNs) were not detected.



## 3.2.4 Catch Basin/Storm Sewer - Building 12 Property

There are three catch basins connected in series on the north side of the property in a paved area. The catch basins discharge to the borough's storm sewer system on Elm Street. The catch basins were installed in 1972 and 1978.

Sediment samples were collected from the catch basin closest to the alleyway (catch basin #3) on April 18, 1986 for PHC, PCB, VO+15 and EPTOX Metals (GTI, 1986). PHCs were detected at a level of 3,200 ppm. The VOCs detected were TCE at 478 ppm, PCE at 95 ppm and trans-1,2-Dichloroethene (T-1,2-DCE) at 9.4 ppm. PCBs and EPTOX Metals were not detected at levels of concern. An integrity test was conducted in 1987 by plugging the sewer line and charging water to the system. The test indicated that the system leaked. The analytical results are presented in Table 3.7. The sample locations are indicated on Figure 3.5.

On October 16, 1987, monitoring well MW-4D was installed in the area adjacent to catch basin #1. Seven soil samples were collected from the well boring for laboratory analysis for VOCs. Samples collected from depths of 2 - 4 feet and 8 - 10 feet were none detectable for VOCs target compounds. Acetone was detected and attributed to field decontamination procedures. VOCs, including TCE, PCE, T-1,2-DCE, Benzene, Ethylbenzene and Xylenes, were detected at levels well below 1 ppm in the samples collected from 13 to 36 feet. MW-1S is located in this area and groundwater sampling has indicated the presence of TCE, PCE and T-1,2-DCE. The analytical results are presented in Table 3.8. The sample locations are indicated on Figure 3.12.

On October 26, 1988, soil samples were collected from a depth of 1 foot below the invert of the catch basins and sewer line joints for VOCs and PHC analysis (FE, 1989a). VOCs levels at catch basin #3 ranged from 5 to 59 ppm (includes Library Search). The concentrations of TCE, PCE and T-1,2-DCE were as high as 4.2 ppm, 1.6 ppm and 8.1 ppm respectively. VOCs levels were below the ECRA Cleanup Guidelines at the time of 1 ppm in the samples collected along the rest of the system. PHC levels were detected in several locations above the ECRA Cleanup Guideline at the time of 100 ppm and were as high as 3,000 ppm. In February 1989, the soil around catch basin 3 was excavated to a depth of 9 feet. The area of the excavation was 16 feet x 10 feet. Post-excavation samples indicated that the soil had been excavated to levels below the ECRA Cleanup Guidelines at the time for VOCs and PHCs. The analytical results are presented in Tables 3.9 and 3.10. The sample locations are indicated on Figure 3.5.



No further action was proposed. NJDEP's January 17, 1990 comment letter required further remediation of the remaining PHC contamination detected along the sewer line in excess of the ECRA guideline at the time of 100 ppm. Based on the current NJDEP Soil Cleanup Criteria of 10,000 ppm for PHCs, further remediation of this area may not be required.

#### 3.2.5 Leaching Pit - Building 12 Property

A leaching pit was found at the corner of the property adjacent to Stickle Avenue and Elm Street. On December 14, 1987, the pit was excavated (First Environment, 1988). A 3 inch clay pipe leading to the pit from the building was observed. The source of the pipe was not determined. The pit was constructed with cinder block walls. The pit was found to be filled with various fill materials including debris. A medium course sand was encountered at a depth of 9 feet. A composite soil sample was collected from below the base of the pit at a depth of 11 feet using a back hoe bucket. The sample was analyzed for VOCs and indicated the presence of 0.37 ppm of TCE, 0.087 ppm of PCE, and 0.019 ppm of 1,2-DCE on a wet-weight basis. The analytical results are presented in Table 3.11.

Monitoring well MW-6S was installed adjacent to the leaching pit (First Environment, 1989a). Soil samples were collected from 2 foot intervals to a depth of 19 feet. The samples were analyzed for VOCs. No VOCs were detected to a depth of 9 feet. VOCs detected from a depth of 9 feet to 19 feet were well below the ECRA Cleanup Guideline of 1 ppm. The analytical results are presented in Table 3.12. The sample locations are indicated on Figure 3.12.

The pit was re-excavated on February 10, 1989 to a depth of 12.5 feet (FE, 1989a). A total of 18 post-excavation soil samples for VOCs analysis were collected. The samples were collected from depths of 7.5, 11.5 and 12.5 feet. Post-excavation samples indicated that VOCs were well below the ECRA Guideline level for VOCs. One sample located on the Elm Street side of the excavation and near a storm sewer line contained Library Search compounds at a level of 34.9 ppm. This level was above the ECRA guideline at the time of 1 ppm for total VOCs. This is not a concern as the current NJDEP Soil Cleanup Criteria for total VOCs is 1,000 ppm. The analytical results are presented in Table 3.13. The sample locations are indicated on Figure 3.6.

No further action was proposed for this area. However, it does not appear that any soil samples for BNs or Metals were collected from this area and the purpose of the pit was never determined. On December 14, 1988, the shallow groundwater in MW-6S was

analyzed for BNs and Metals (FE, 1989a), and metals were detected at levels above the current NJDEP GWQS.

# 3.2.6 Degreaser Pit - Building 12

The degreaser pit was constructed of concrete and was installed in 1965. The concrete pit's dimensions are approximately 7 feet by 19 feet by 4 feet deep. A sump located in the corner of the pit measures 1 foot by 1 foot by 1 foot deep. Construction diagrams indicate that the concrete forming the pit is 6 inches thick. On September 21, 1989, two soil samples were collected beneath the pit for laboratory VOCs analysis. The analytical results were none detected. An old Thiokol map indicated that a process monorail was used for the degreasing process.

First Environment also collected samples in this area for the purpose of providing data in support of litigation. Samples for VOCs laboratory analysis were submitted to ICM Laboratories. Soil vapor field screening samples were analyzed by a Photovac 10S50 or 10S70 portable GC. Field screening was conducted in accordance with NJDEP's "Field Delineation of Volatile Contamination Using Ambient Temperature Head Space Analysis." On December 19 and 20, 1991 and January 10 and 17, 1992, soil vapor samples were collected in the vicinity of the pit along the path of the monorail at depths of 3 and 5 feet in nineteen locations (VD-1 to VD-19). TCE and PCE vapors were detected in all the samples, the highest levels were detected at sample locations VD-5, VD-9, VD-10 and VD-19. The highest level detected was about 139 ppm. On January 17, 1992, two additional soil samples were collected at the locations with the high vapor readings for laboratory analysis. The samples were collected at a depth of 2.5-3 feet and analyzed for VOCs. TCE and PCE were detected in both samples at levels below that of concern (NJDEP's soil cleanup criteria). The analytical results are presented in Table 3.14, 3.15 and 3.16. The sample locations are indicated on Figure 3.7.

#### 3.2.7 Alleyway - Building 12

The storage and handling of waste oil, spent solvent, and metal chips occurred in this area. Aluminum chips were found above and below the pavement in this area to a depth of 10 inches. On July 24, 1990, a soil sample ("At Back Door") was collected at a depth of 1.5-2 feet for laboratory analysis for VOCs. The analytical results indicated the presence of 1,2-DCE at 3.2 ppm. On July 24, 1990, two samples of the aluminum chips were collected by Mr. Joseph Klockner of Klockner & Klockner. The samples were analyzed by Materials Expertise, Inc. of Fairfield, New Jersey. The results indicated that the metal chips were aluminum based and contained only small amounts of other elements (Attachment 5).



The analytical results are presented in Tables 3.14 and 3.16. The sample locations are indicated on Figure 3.8.

On December 19, 1991, three soil samples (AL-1 to AL-3) were collected and field screened for VOCs. TCE was detected at all three locations with the highest level detected being 2.4 ppm at location AL-3. On January 13, 1992, soil vapor samples were collected at a depth of 3 feet at four locations (AL-4 to AL-7). TCE was detected at all four locations with the highest level detected being 20 ppm at location AL-5-VP. Sample AL-5-VP was collected from the aluminum chips. On January 20, 1992, a confirmation soil sample for laboratory VOCs analysis was collected at location SS-3 from a depth of 2.5-3 feet. The analytical result were 0.67 ppm of TCE and 0.021 ppm of PCE. The analytical results are presented in Tables 3.14 and 3.16. The sample locations are indicated on Figure 3.8.

First Environment collected samples in this area. Samples for VOCs laboratory analysis were submitted to ICM. Soil vapor field screening samples were analyzed by a Photovac 10S50 or 10S70 portable GC. Field screening was conducted in accordance with NJDEP's "Field Delineation of Volatile Contamination Using Ambient Temperature Head Space Analysis."

# 3.2.8 Scale Room - Building 12

The former scale room was located in the southeast corner of 1964 addition (Area A). The drain pipe to the former underground waste oil tank is located in the former scale room. On July 24, 1990, a soil sample ("Funnel Area") was collected adjacent to the pipe at a depth of 14-20 inches for laboratory analysis for VOCs. The VOCs TCE, PCE and T-1,2-DCE were detected at levels of 16 ppm, 0.012 ppm and 1.1 ppm respectively. Field screening for VOCs was conducted from residual materials in the drain pipe and oily sludge in the bottom of the scale pit ("Scale Pit Bottom Sludge"). TCE and PCE were not detected in the field screening samples. The analytical results are presented in Tables 3.14 and 3.16. The sample locations are indicated on Figure 3.9.

On January 13, 1992, an observation hole was jackhammered through the floor 3 feet from the drain pipe. The floor was opened to inspect for the presence of pipes or structures that may have been part of a floor drain. None were observed.

First Environment collected samples in this area. Samples for VOCs laboratory analysis were submitted to ICM. Soil vapor field screening samples were analyzed by a Photovac 10S50 portable GC. Field screening was conducted in accordance with NJDEP's

"Field Delineation of Volatile Contamination Using Ambient Temperature Head Space Analysis."

#### 3.2.9 Quonset Hut - Building 12

The Quonset Hut is located adjacent to the alleyway. It is believed that it was historically used for drum storage by Thiokol. It is currently used by Service Metal Fabricating, Inc. as a maintenance and storage area. On December 19, 1991, four soil samples (QH-1 to QH-4) were collected from below the concrete floor and paving in this area at a depth of 12-18 inches and field screened for VOCs. TCE levels ranged from 0.32-1.71 ppm and PCE levels ranged from 0.1-2.5 ppm. The analytical results are presented in Table 3.16. The sample locations are indicated on Figure 3.10.

On January 20, 1992, the location with the highest readings (QH-2) was resampled (SS-4) at a depth of 2.5-3 feet for VOCs by laboratory analysis. The analytical results indicated the presence of TCE at 2.3 ppm and PCE at 2.5 ppm. The analytical results are presented in Table 3.14. The sample locations are indicated on Figure 3.10.

First Environment collected samples in this area. Samples for VOCs laboratory analysis were submitted to ICM. Soil vapor field screening samples were analyzed by a Photovac 10S50 portable GC. Field screening was conducted in accordance with NJDEP's "Field Delineation of Volatile Contamination Using Ambient Temperature Head Space Analysis."

#### 3.2.10 Loading Dock - Building 12

The loading dock area is located in the building addition constructed in 1962 (Area E). On January 13, 1992, three samples (LD-1 to LD-3) for VOCs field screening were collected beneath the floor. TCE was detected in one sample (LD-1) at a level reported as < 1 ppm. The analytical results are presented in Table 3.16. The sample locations are indicated on Figure 3.11. No further investigation of this area is proposed.

First Environment collected samples in this area. Samples for VOCs laboratory analysis were submitted to ICM. Soil vapor field screening samples were analyzed by a Photovac 10S50 portable GC. Field screening was conducted in accordance with NJDEP's "Field Delineation of Volatile Contamination Using Ambient Temperature Head Space Analysis."

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# 3.2.11 Groundwater Contamination - Building 12

An extensive groundwater investigation has been conducted at the Building 12 property. The results of the groundwater investigation indicated the presence of TCE, PCE and metals contamination in the shallow and deep groundwater beneath the Building 12 property. Seven shallow and six deep aquifer monitoring wells were installed as part of the ECRA investigation. The well locations are indicated on Figure 3.12. The shallow wells were sampled and analyzed for PHCs, VOCs, BNs and Metals. The contaminants detected at levels of concern (NJDEP's GWQS) included TCE, PCE, T-1,2-DCE, Arsenic, Chromium and Lead. The analytical results are presented in Tables 3.17, 3.18 and 3.19.

Isoconcentration lines for the PCE and TCE contaminant levels are plotted on Figures 3.13 and 3.14. Based on the TCE plot, it is apparent that the source of the TCE groundwater contamination is located at the alleyway. The plot of the PCE levels indicate a possible off-site source located south of the Building 12 property in the direction of the Building 13 property.

The deep wells were sampled and analyzed for VOCs. The contaminants detected at levels of concern (NJDEP's GWQS) included TCE, PCE and T-1,2-DCE. The analytical results are presented in Table 3.20, 3.21 and 3.22.

During January 1990, two soil borings were installed to investigate soil conditions below the water table. One of the borings (SB1-90) was installed in the alleyway and the other (SB2-90) near Stickle Avenue. Soil samples were collected from SB1-90 using Shelby Tubes for permeability testing and laboratory analysis for VOCs. The VOC samples were collected from the soil at the tip of the Shelby Tubes. Soil samples were also field screened with a Photovac 10S50. The analytical results for TCE and PCE for the samples collected from SB1-90 are plotted on Figure 3.15.

#### 3.2.12 Other Areas - Building 12 Property

Other areas of concern identified which have not been sampled include the following:

1. A 1x1.5x4 foot deep opening was observed by NJDEP near the former boiler in Building 12 near the former scale room. It was determined that the opening was for the purpose of piping oil from the former heating oil tank located in the alleyway into the building.



- 2. A shed with a wood floor formerly was located in the alleyway. Various hazardous materials were stored in this shed including acids, bases, plating chemicals, methylene chloride and lubricants (Attachment 6).
- 3. The Randolph Township Health Inspector indicated in 1985 that were 55 gallons of a cyanide containing solution, 55 gallons of a yellow substance and 250 gallons of a lead tin solution present outside the building (Attachment 7). The location was not indicated in the April 19, 1985 NJDEP Incident Report. Follow up investigations conducted by NJDEP during 1985 and 1986 indicated the presence of the drummed materials in the alleyway area (Attachment 6). Some drums were observed to be leaking, forming an approximately 4 foot by 10 foot spill. Runoff from this area would have flowed to the catch basin area, which was subsequently investigated and remediated except as detailed above.
- 4. An aerial photograph from 1966 indicated the storage of drums in the area north of Building 12. This area has not always been paved.
- 5. A sump is located against the Building 12 wall north of the former scale room area. This location is adjacent to the alleyway. The sump was used to collect non-contact cooling water. Currently, there is a sink in this area that is piped to the sump.
- 6. The Building 12 sanitary discharges have always been directed to the Borough of Rockaway's sanitary sewer system (GTI,1986a). The property was undeveloped prior to the construction of Building 12 in the 1940's. The sanitary sewer discharge lines from the Building 12 property are indicated on Figure 3.4.

#### 3.2.13 Underground Heating Oil Tanks - Building 13 Property

On October 4, 1986, F.G. Clover removed two underground heating oil tanks. The tanks had capacities of 500 and 1,000 gallons. One tank was located near the main entrance to Building 13 and the other was located at the southeast corner of Building 13. NJDEP personnel visited the site on October 9, 1986 (NJDEP, 1986a). No soil samples were collected to verify the integrity of the tanks. Mr. Iverson, the property owner, indicated to NJDEP that there were no problems with the tank. NJDEP collected a sample from one of the excavated tanks for laboratory analysis for VOCs. The analytical results indicated the presence of organic compounds associated with heating oil. No TCE or PCE was detected. The analytical results are presented in Table 3.23.



#### 3.2.14 Dry Well - Building 13 Property

NJDEP personnel visited the site on October 9, 1986 (NJDEP, 1986a). A 1,000 gallon dry well for waste process water was identified during the site visit. Process waste water was discharged to the dry well. Mr. Iverson indicated to NJDEP that the discharge to the dry well consisted of trisodium phosphate and water. NJDEP collected a sample from the dry well for laboratory analysis for VOCs, BNs, Acid Extractable Organic Compounds and PHCs. The analytical results indicated the presence of organic compounds but no TCE or PCE was detected. The analytical results are presented in Table 3.23.

Monitoring well FG-1 was installed by F.G. Clover to investigate this area under NJDEP oversight. During the site visit conducted during the preparation of this report, Mr. Iverson indicated that the discharge to the dry well was rerouted to the sanitary sewer system and the dry well is no longer active. Mr. Iverson also indicated that based on the groundwater sample results from FG-1, NJDEP did not require any further remedial activities.

#### 3.2.15 Soil Gas Survey - Building 13 Property

A soil gas survey was conducted by Tracer Research Corporation during October 1985 as part of the Phase I RI/FS for the Site (SAIC, 1986). One of the sixty-two locations sampled included the Building 13 property. Survey sample location 43 was collected from the southeast side of the Building 13 property. The results indicated the presence of PCE at a level of 21 parts per billion (ppb). Based on a comparison of PCE levels detected in the other sample locations, the Building 13 property was identified as a potential source of the PCE groundwater contamination. The isoconcentration map for PCE from the Tracer Research Report is included as Figure 3.16.

#### 3.2.16 Groundwater - Building 13 Property

A deep monitoring well (SAI-07) was installed on Lot 8 of the Building 13 property as part of the Phase I RI/FS for the Site. The well has been sampled several times as part of the Phase I and Phase II RI/FS activities for the Site. The contaminant of concern identified in this well was TCE at 10.4 ppb.

A shallow monitoring well (FG-1) was apparently installed on the Building 13 property by F.G. Clover. In September 1990, sampling of this well was conducted as part of the Phase II RI/FS. Both PCE and TCE were detected in FG-1 at levels of 91 ppb and 160 ppb respectively.

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#### 3.2.17 Former Aboveground Oil Tank - Building 13

The Sanborn Map for the year 1924 and aerial photograph for the year 1940 indicated the presence of three aboveground storage tank on the east side of the Building 13 property.

#### 3.2.18 Oil Storage Shed - Building 13

Drums of oil are stored in a shed located on the south side of Building 13. A compressor is also present in the shed. A pipe is located at floor level which discharges at ground level outside the shed.

#### 3.3 Acceptability of Data

A review of the existing data indicates that it was generated by following the appropriate NJDEP procedures required at the time of sampling. Soil samples, except where noted, were analyzed by a New Jersey certified laboratory using EPA analytical methods as required by NJDEP.

Field screening for VOCs was conducted in accordance with NJDEP's guidance document. The method utilized in the collection of the soil vapor samples was as follows (FE, 1992a):

"Soil vapor samples were collected via a dedicated soil vapor probe driven to the required depth. A 5/8 inch diameter steel probe was first driven to a depth of 3 feet. The 6 inch long intake of the probe was centered at the sample depth. A dedicated air tight vacuum sampling head equipped with sample septum, vacuum gage and isolation valve was attached to the top of the vapor probe. A carbon vane oiless vacuum pump was used to evacuate the probe and sampling head. Representative soil vapors are drawn into the vapor probe and pass through the sampling head to the pump. The sample is thereby prevented from entering the pump itself. The isolation valve is then closed trapping the soil vapor sample in the sampling head. Vacuum readings are taken during pumping and then after the isolation valve is closed to confirm that the vacuum is allowed to decay to atmospheric pressure before the sample is collected. After the vacuum decays, a sample of the soil vapor is extracted from the sampling head through the septum, using the gas tight syringe. The sample is then injected directly into a portable gas chromatograph for the field screening analysis."



The existing laboratory data is acceptable for the purpose of identifying areas requiring further investigation or no further investigation. The existing soil gas data is acceptable for determining the location of potential sources of VOCs contamination and guide any further sampling activities.

#### 4.0 DRAFT CONCEPTUAL RI/FS WORK PLAN OUTLINE

The purpose of this draft Conceptual RI/FS Work Plan Outline (Work Plan Outline) is to identify and conceptually describe the major element in the RI/FS Work Plan. The performance of the RI and FS shall be in conformance with the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the National Oil and Hazardous Substance Pollution Contingency Plan (NCP), as well as guidance documents issued by EPA under CERCLA.

The following is a proposed outline of the RI/FS Work Plan:

- 1.0 Introduction
- 2.0 Background
  - 2.1 Site History
  - 2.2 Historic Ownership and Operations At Klockner Property
  - 2.3 Sanborn Insurance Maps
  - 2.4 Aerial Photographs
  - 2.5 Site Conditions
  - 2.6 Previous Investigations
- 3.0 Summary Report
  - 3.1 Hazardous Substance Use at Klockner Property
  - 3.2 Results of Previous Site Investigation Activities
  - 3.3 Summary of Areas Requiring Further Investigation
  - 3.4 Acceptability of Data
- 4.0 RI/FS Scope of Work
  - 4.1 Identification of Remedial Alternatives
  - 4.2 Determination of Applicable or Relevant and Appropriate Requirements (ARARs)
  - 4.3 Summary of RI Objectives
  - 4.4 Data Requirements



#### 4.5 Data Quality Objectives

#### 5.0 Task Descriptions for RI/FS

- 5.1 Task 1 Scoping
  - 5.1.1 Summary Report
  - 5.1.2 RI/FS Work Plan
  - 5.1.3 Field Operations Plan
  - 5.1.4 Site Management Plan
- 5.2 Task 2 Community Relations
- 5.3 Task 3 Characterization of the Klockner Property
  - 5.3.1 Field Investigation
  - 5.3.2 Data Analysis
  - 5.3.3 Data Management
  - 5.3.4 Characterization Report
- 5.4 Task 4 Identification of Candidate Technologies
- 5.5 Task 5 Treatability Studies
- 5.6 Task 6 EPA's Baseline Risk Assessment
- 5.7 Task 7 Remedial Investigation Report
- 5.8 Task 8 Remedial Action Objectives and Screening of Remedial Alternatives
- 5.9 Task 9 Feasibility Study Report

#### 6.0 Schedule of RI/FS Activities

#### 4.1 Conceptual Description of Major Elements of the RI/FS Work Plan

#### 4.1.1 Background and Summary Report

The Background and Summary Report sections of the RI/FS Work Plan will set forth the site description including the geographic location of the property; a synopsis of the Klockner Property's history and a description of previous responses conducted at the Klockner Property by local, state, federal or private parties; and a Summary of the existing data in terms of physical and chemical characteristics of the contaminants identified, and their distribution among the environmental media at the Klockner Property.

#### 4.1.2 RI/FS Scope of Work

The RI/FS Scope of Work section of the RI/FS Work Plan will provide a preliminary identification of remedial alternatives, a preliminary determination of applicable or relevant



and appropriate requirements (ARARs), a summary of RI objectives, data requirements, and data quality objectives (DQO).

#### 4.1.3 Task 1 - Scoping

The Scoping section will identify the project planning deliverables. The deliverables identified will include the Summary Report, RI/FS Work Plan, Field Operations Plan and the Site Management Plan. The Field Operations Plan (FOP) will be included and will consist of a Sampling and Analysis Plan, Quality Assurance Project Plan and a Health and Safety Plan.

#### 4.1.4 Task 2 - Community Relations

Community relations will be the responsibility of the EPA. This section will provide for assistance by Klockner & Klockner as needed.

#### 4.1.5 Task 3 - Characterization of the Klockner Property

The Characterization section of RI/FS Work Plan will provide for the conduct of the field investigation activities proposed in the RI/FS Work Plan and FOP. The purpose of the field investigation activities will be to implement and document field support activities, investigate and define site physical and biological characteristics, define sources of contamination and describe the nature and extent of contamination. This section of the RI/FS Work Plan will also include provisions for data analysis, data management procedures and preparation of monthly Progress Reports and a Characterization Summary Report.

The following areas of potential environmental concern have been identified and proposed actions are presented:

#### **Building 12 Property**

1. Heating Oil Tanks

No further actions are proposed for this area of potential environmental concern under the RI/FS for the Klockner Property.



#### **Building 12 Property**

2.	Underground Gasoline Tank	The collection and analysis of the samples
		requested by NJDEP will be conducted under
		the current RI/FS for the Klockner Property.

3. Waste Oil Tank

Tank #4 was located in an area where shallow
TCE soil contamination has also been
detected, and further investigation of this
contamination will be proposed as part of the
RI/FS Work Plan.

Due to the presence of metals in the ground-water above the GWQS, investigation of this area under the current RI/FS will include analysis for metals.

4. Catch Basin/Storm Sewer

A soil sample should be collected from the location with the highest PHC concentration for BNs and Metals analysis to determine if further remediation is warranted in accordance with N.J.A.C. 7:26.

5. Leaching Pit

No further action was proposed to NJDEP for this area. However, it does not appear that any soil samples for BNs or Metals were collected from this area and the purpose of the pit was never determined. On December 14, 1988, the shallow groundwater in MW-6S was analyzed for BNs and Metals (FE, 1989a), and metals were detected at levels above the current NJDEP GWQS. Therefore, sampling for Metals in this area will be proposed as part of the RI/FS Work Plan.



#### **Building 12 Property**

6.	Degreaser Pit	It does not appear that any further action is necessary in this area. However, the field sample results do not correlate well with the lab results, raising the question as to whether the soil sample delivered to the lab was properly handled. As part of the RI/FS, a confirmatory sample for laboratory analysis will be proposed for this area.
7.	Alleyway	Tanks #3 and #4 were also located in the alleyway. Additional soil sampling to define the limits of the contamination detected in this

the limits of the contamination detected in this area will be proposed as part of the RI/FS

Work Plan.

Scale Room

A scale is located in the center of the room.

The underside of the scale will be inspected as part of the RI/FS to determine if a drain is below it. Any sludge would have to be removed and properly disposed. Additional soil sampling to define the limits of the contamination detected in this area will be proposed as part of the RI/FS Work Plan.

- 9. Quonset Hut

  Additional soil sampling to define the limits of the contamination detected in this area will be proposed as part of the RI/FS Work Plan.
- 10. Loading Dock No further investigation of this area is proposed.
- 11. Groundwater Contamination

  Investigation and remediation of the groundwater beneath the Building 12 property is being conducted by Thiokol, and will not be addressed in the RI/FS for the Klockner property.

8.

#### **Building 12 Property**

12.	Opening for Boiler Piping	NJDEP did not require any further investigation of this area and none will be proposed as part of the RI/FS.
13.	Drum Storage Shed	Sampling will be proposed for this area as part of the RI/FS Work Plan investigation for the alleyway.
14.	Drum Storage in Alleyway	Sampling will be proposed for this area as part of the RI/FS Work Plan investigation for the alleyway.
15.	North Drum Storage Area	The investigation of the soil in this area will be proposed as part of the RI/FS Work Plan.
16.	Sump	This area will be included in the proposed RI/FS Work Plan activities for the alleyway area.
17.	Sanitary Discharges	No further investigation of this area will be proposed.



#### **Building 13 Property**

1.	Underground Heating Oil Tanks	Sampling to be proposed as part of the RI/FS Work Plan will include biased samples at the former tank locations.
2.	Dry Well	No further investigation of this area is proposed.
3.	Soil Gas Survey	The further investigation of potential sources of the TCE and PCE contamination will be proposed as part of the RI/FS Work Plan for the Klockner Property.
4.	Groundwater	The further investigation of potential sources of the TCE and PCE contamination will be proposed as part of the RI/FS Work Plan for the Klockner Property.
5.	Former Aboveground Oil Tanks	Sampling to be proposed as part of the RI/FS Work Plan will include biased samples at the former tank locations.
6.	Oil Storage Shed	The further investigation of this area will be proposed as part of the RI/FS Work Plan for the Klockner Property.

#### 4.1.6 Task 4 - Identification of Candidate Technologies

The Identification of Candidate Technologies section of the RI/FS Work Plan will provide for the identification of candidate technologies for alternative analysis (Task 9). This section will provide for the conduct of a literature survey to gather appropriate information.



#### 4.1.7 Task 5 - Treatability Studies

The Treatability Studies section of the RI/FS Work Plan will provide for the submittal of a Treatability Testing Work Plan, a Treatability Study FOP and a Treatability Study Evaluation Report.

#### 4.1.8 Task 6 - EPA's Baseline Risk Assessment

The Risk Assessment section of the RI/FS Work Plan will describe information needed for EPA's baseline risk assessment.

#### 4.1.9 Task 7 - Remedial Investigation Report

The Remedial Investigation Report section of the RI/FS Work Plan will provide for the submittal of a report summarizing results of field activities to characterize the Klockner Property, sources of contamination, nature and extent of contamination and fate and transport of contaminants.

## 4.1.10 Task 8 - Development of Remedial Action Objectives and Screening of Remedial Alternatives

The Development of Remedial Action Objectives and Screening of Remedial Alternatives section of the RI/FS Work Plan will provide for the development and screening of remedial alternatives, identifying areas or volumes of media to which general response actions may apply, identifying, screening and documenting applicable remedial technologies, assembling and documenting alternatives, refining alternatives and conducting and documenting a screening evaluation of each alternative.

#### 4.1.11 Task 9 - Feasibility Study Report

The Feasibility Study Report section of the RI/FS Work Plan will provide for the detailed analysis of alternatives and submittal of a Feasibility Study Report.

#### 4.1.12 Schedule of RI/FS Activities

The schedule section of the RI/FS Work Plan will provide a schedule to conduct the proposed RI/FS.



#### 4.2 Summary of Area Requiring Further Investigation

The sampling activities conducted at the Building 12 property have identified the alleyway and adjoining areas as the likely source of TCE and PCE groundwater contamination at the Building 12 property. Known locations of TCE and PCE contamination are plotted on Figures 3.17 and 3.18. The former drum storage area north of Building 12 remains to be investigated. The delineation of the VOCs contamination in the alleyway and adjoining areas will be proposed as part of the RI/FS Work Plan. A soil vapor survey will be conducted followed by soil sampling. Additional sampling will be conducted at the catch basin and Tank #5 areas to satisfy outstanding NJDEP concerns. Sampling will also be conducted at the former leach pit to verify if metals are present at levels of environmental concern.

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#### **TABLES**

- 2.1 Klockner & Klockner Chronological List of Tenants Building No. 12
- 3.1 Tank #1 Soil Sampling Results
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- 3.6 Trichloroethylene and Tetrachloroethylene Post Excavation Results Tank #4 April and May 1986
- 3.7 Catch Basin Sediment Sampling Results April 18, 1986
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- 3.9 Preliminary Soil Sampling Results Catch Basin/Storm Sewer System October 26, 1988
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- 3.11 Analytical Results Leaching Pit Invert Soil Sampling Volatile Organic Compounds By GC Screen December 14, 1987
- 3.12 Soil Sampling Results Monitoring Well MW-6S November 5, 1988
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- 3.14 Analytical Results Soil Sampling in Degreaser Pit, Alleyway, Scale Room and Quonset Hut Areas
- 3.15 Field Screening Results For Soil Vapor Samples Collected in the Degreaser Pit Area
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- 3.17 Summary of Ground Water Sampling Results Shallow Monitoring Wells
- 3.18 Shallow Ground Water Sampling Results December 14, 1988
- 3.19 Analytical Results Shallow Ground Water Sampling September 1989
- 3.20 Summary of Ground Water Sampling Results Deep Monitoring Wells
- 3.21 Deep Ground Water Sampling Results Monitoring Well MW-4D November 25, 1987
- 3.22 Analytical Results Deep Ground Water Sampling September 1989
- 3.23 Analytical Results NJDEP Sampling Activities October 9, 1986



#### TABLE 2.1

# KLOCKNER & KLOCKNER CHRONOLOGICAL LIST OF TENANTS BUILDING NO. 12 (ELM STREET & STICKLE AVENUE) ROCKAWAY BOROUGH - MORRIS COUNTY

_	Area A		
<b></b>	1964-Mar. 1970	Thiokol Chemical Corporation (Reaction Motors Division)	Manufactured Bull Pup Missiles for Armed Forces (machine shop operation)
	1970-Aug. 1971	Vacant	
tura -	Sept. 1971-Sept. 1973	Rogers Container Corporation	Manufactured cookie containers and tin wastebaskets
	Oct. 1973-Dec. 1974	Vacant	
plateni,	Dec. 1974-Feb. 1993	Multi-Form Metals, Inc. (Masden Industries - Messrs. Mauriello/Fabend)	Forms intricate wire shapes and manufactures proximity fuses for Armed Forces
St. Many	1993-Present	Service Metal Fabricating	See Area C - 1st Floor
werton	Area B - 1st Floor		
Non-weigh	1948-Mar. 1970	Thiokol Chemical Corporation (Reaction Motors Division)	See Area A
njan ong	Mar. 1970-Mar. 1972	Vacant	
ereba	April 1972-Mar. 1977	K & K Precision Plastics, Inc.	Plastic injection molders
	April 1977-Aug. 1977	Vacant	



#### TABLE 2.1 (continued)

	Sept. 1977-1978	David Barbour t/a A & D Plastics	Plastic injection molders
*	Oct. 1977-Oct. 1979	Frameco, Inc.	Manufactured wood and aluminum picture frames
Wagning.	Mar. 1978-Feb. 1981	Carbone-Ferraz, Inc.	Manufactured fuses
	Mar. 1981-Dec. 1984	Vacant	
Wasses,	June 1985-Sept. 1986	Ultimate Computer Service, Inc.	Warehoused obsolete computers
	Oct. 1986-Mar. 1988	Vacant	
******	April 1988-Present	Write Mark Sales, Inc. (Portion)	Warehouses and sells office supplies
	-Present	Service Metal Fabricating, Inc.	See Area C - 1st Floor
	Area B - 2nd Floor		
Marina	1948-1970	Thiokol Chemical Corporation (Reaction Motors Division)	Office
Angelongs,	1970-1973	Vacant	
Marine	1973-1976	Casual Living Pools & Patio, Inc.	Warehoused pool and garden furniture
	1995-Present	May Architectural Woodworking	See Area C - 2nd Floor
	Area C - 1st Floor		
·			
haas	1948-Mar. 1970	Thiokol Chemical Corporation (Reaction Motors Division)	See Area A
	Mar. 1970-May 1972	Vacant	
	June 1972-1973	Stonehill Industries, Inc.	Plastic product extruder
	1973-May 1975	Vacant	
200704	May 1975-Dec. 1975	Lighting Electric of PA., Inc.	Garage space
	Jan. 1976-Sept. 1977	Vacant	
			300094



#### TABLE 2.1 (continued)

America	Oct. 1977-Oct 1979	Frameco, Inc.	See Area B
	Nov. 1979-Oct/ 1981	Vacant	
- Miningson	Nov. 1981-Dec. 1981	Technology Insulation, Inc.	Nothing
	Dec. 1981-Aug. 1982	Vacant	
	Sept. 1982-Present	Service Metal Fabricating, Inc.	Sheet metal fabrication
Mercula.	Area C - 2nd Floor		
6441584 <b>6</b>	1948-1970	Thiokol Chemical Corporation (Reaction Motors Division)	Office
	1970-1976	Vacant	
<b>L</b> over	May 1976-May 1986	Just Sew, Inc. (Assigned to Elena Sports, Inc.)	Contract garment sewer
	June 1986-Feb. 1988	Vacant .	
	Mar. 1988-Mar. 1989	Pierson Industries,Inc.	Warehoused plastic materials
Armen	April 1989-Aug. 1989	Vacant	
	Sept. 1989-1993	Service Metal Fabricating, Inc.	See Area C - 1st Floor
Armon,	1993-Present	May Architectural Woodworking	Kitchen cabinet fabrication
observa,			
	Area D (2nd Floor Only)		
	Previously Vacant		
	Feb. 1979-Present	Morton Hahn, Inc.	Imports tropical shells
MANAGE.			
	Area E	, '	
- <del></del>			
_	1963-Mar. 1970	Thiokol Chemical Corporation (Reaction Motors Division)	See Area A 300095



#### TABLE 2.1 (continued)

April 1970-Aug. 1971	Vacant	
Sept. 1971-1973	Rogers Container Corporation	See Area A
Oct 1973-Nov. 1974	Vacant	
Dec. 1974-Present	Multi-Form Metals, Inc. (Masden Industries - Messrs. Mauriello/Fabend)	See Area A
April 1988-Present	Write-Mark Sales, Inc. (Portion)	See Area B - 1st Floor
-Present	Service Metal Fabricating (Portion)	See Area C - 1st Floor

#### Note:

- 1. Certain of the written leases pertaining to the above tenants were terminated before the agreement term expired. The above dates give actual/approximate occupancy periods.
- 2. Occupancies shown above per building area relate to all or a portion of that area, as the case may be.
- 3. Source Klockner & Klockner's February 20, 1990 response to EPA 104(e) Form.



TABLE 3.1

TANK #1 SAMPLING RESULTS

Sample ID	Date	Depth	Location	Analysis*	Results (mg/kg)
1A	4/15/86	7'	Centerline	PHC	< 18
1B	4/15/86	7.5'	Centerline	PHC	< 17
1C	4/15/86	7.5'	Centerline	PHC	< 17
1D	4/15/86	7.5'	Sidewall	PHC	< 18
1E	4/15/86	7'	Sidewall	PHC	89 (91 Dup)
1F	4/15/86	7'	Centerline	PHC	< 18
1G	4/15/86	3'	Pipeline	PHC	< 20

\* PHC = Petroleum Hydrocarbons

Source: GTI 1986

TABLE 3.2

TANK #2 SOIL SAMPLING RESULTS

Sample ID	Date	Depth	Location	Analysis*	Results (mg/kg)
2A	4/15/86	9'	Centerline	PHC	480
2B	4/15/86	9.5'	Centerline	PHC	43
2C	4/15/86	9.5'	Centerline	PHC	< 18
2D	4/15/86	9'	Sidewall	PHC	92
2E	4/15/86	9.5'	Centerline	PHC	< 18
2F	4/15/86	9'	Sidewall	PHC	77
2G	4/15/86	9.5'	Sidewall	PHC	< 19
2H	5/22/86	10'	Sidewall	PHC	40
21	5/22/86	10'	Sidewall	PHC	N.D.
			•		

\* PHC = Petroleum Hydrocarbons

Source: GTI 1986

TABLE 3.3

TANK #3 SOIL SAMPLING RESULTS

Sample ID	Date	Depth	Location	Analysis*	Results (mg/kg)
3A	4/15/86	6'	Centerline	PHC	31
3B	4/15/86	6.5'	Centerline	PHC	90
3C	4/15/86	6.5'	Centerline	PHC	< 18
3D	4/15/86	6.5'	Centerline	PHC	72
3E	4/15/86	6'	Sideline	PHC	220
3F	4/15/86	6.5'	Sideline	PHC	30
3G	5/22/86	9'	Sideline	PHC	20
3H	5/22/86	9	Sideline	PHC	24

\* PHC = Petroleum Hydrocarbons

Source: GTI 1986

TABLE 3.4

TANK #5 SAMPLING RESULTS

Sample No.	Sample Location	<u>Sample</u> <u>Depth</u>	Total Volatile Organics (EPA Method 503.1)
S-1	North end of base of excavation along tank spine	0-1' below tank invert	N.D.
S-2	Center of base of excavation along tank spine	0-1' below tank invert	N.D.
S-3	West sidewall of excavation	0-1' below tank invert	N.D.
S-4	South end of base of excavation along tank spine	0-1' below tank invert	N.D.
S-5	East sidewall of excavation	0-1' below tank invert	N.D.
S-6	Duplicate of S-5	0-1' below tank invert	N.D.

Source: MES, 1987

TABLE 3.5
TANK #4 SOIL SAMPLING RESULTS\*

na Mari	Sample ID	Date	Depth	Location	Analysis**	Results (mg/kg)
	4 A	4/17/86	8 '	Centerline	PHC	470.
	4 A	4/17/86	8 <sup>t</sup>	Centerline	VOC	0.05
	4B	4/17/86	8 '	Centerline	PHC	< 18.
	4B	4/17/86	8 '	Centerline	voc	1.49
narana,	4C	4/17/86	71	Centerline	PHC	32.
	4C	4/17/86	7'	Centerline	VOC	6.14
<del></del>	4D	4/17/86	7'	Centerline	PHC	< 40.
	4D	4/17/86	7'	Centerline	VOC	3.87
<del></del>	4 <u>E</u>	4/17/86	8 '	Centerline	PHC	350
	4E	4/17/86	8 '	Centerline	VOC	0.35
	4 F	4/17/86	7.5'	Sideline	PHC	120.
	4F	4/17/86	7.5'	Sideline	voc	N.D.
	4G	5/22/86	12'	Centerline	PHC	10.
	4G	5/22/86	12'	Centerline	VOC	N.D.
	4H	5/22/86	12'	Centerline	PHC	78.
<del></del>	4H	5/22/86	12'	Centerline	VOC	N.D.
<del>,</del>	41	5/22/86	12'	Centerline	PHC	86.
	41	5/22/86	12'	Centerline	VOC	1.0
areast .	Pit 4 Sample 1	5/22/86	9 1	Sideline	VOC	0.208 mg/l
	Pit 4 Sample 2	5/22/86	9 '	Sideline	VOC	1.99 mg/l

N.D. = Not Detected

300101

Source: GTI, 1986



<sup>\*</sup> All samples are soil matrix except seepage samples which are water matrix.

<sup>\*\*</sup> PHC = Petroleum Hydrocarbons

VOC = Volatile Organic Compounds (GC scan)

TABLE 3.6
Trichloroethylene and Tetrachloroethylene
Post Excavation Results - Tank 4
April and May, 1986

SAMPLE LOCATION SAMPLE DEPTH (FEET)	4A 8	48 8	4C 7	4D 7	4E 8	4f 7.5	4G 12	4H 12	41	PIT 4 SAMPLE 1 9	PIT 4 SAMPLE 2 9
SAMPLE DATE	<u>4/17/86</u>	<u>4/17/86</u>	4/17/86	4/17/86	<u>4/17/86</u>	<u>4/17/86</u>	<u>5/22/86</u>	<u>5/22/86</u>	5/22/86	5/22/86	<u>5/22/86</u> 93
frichloroethylene (ppb) Tetrachloroethylene (pob)	50 u	400 90	4,000 300	2,800 300	200 60	บ น	u u	u u	500 400	1,300 30	n 42

u = Undetected ppb = Parts per billion

Source: First Environment, 1992

300102



#### **TABLE 3.7**

#### CATCH BASIN SEDIMENT SAMPLING RESULTS

#### **APRIL 18, 1986**

#### Volatile Organic Compounds (ppm)

Trichloroethylene	478
Tetrachloroethylene	94
t-1, 2-Dichloroethylene	<u>9.4</u>
Total Target Compounds	581.4
Total Library Search	3.7

#### Petroleum Hydrocarbons (ppm) 3,200

#### Polychlorinated Biphenyls (ppm) None Detected

#### EP Toxicity Test (ppm)

Arsenic	< 0.002
Barium	< 0.03
Cadmium	0.02
Chromium	0.02
Lead	< 0.06
Mercury	< 0.025
Selenium	< 0.005
Silver	< 0.03

Source: GTI, 1986



TABLE 3.8

## SOIL SAMPLING RESULTS MONITORING WELL HW-4D OCTOBER 16, 1987

SAMPLE LOCATION SAMPLE DEPTH	MW-41) SOILS 2-4'	MW-40 SOILS 8-10'	MW-40 SOILS 13-15'	MW-4D SOJ1.5 18-20'	MW-4D SOILS 20-22'	MW-4D SOILS 25-27'	MW-4D SOILS 34-36'	TRIP BLANK	FIELD BLANK
Volatile Organics (ppb)									
Targeted Peaks			•						
 Trans-1,2-Dichloroethylene	u	น	17	25	11	u	u	u	บ
Trichloroethylene	ü	u	120	62	72	8	u	υ	บ
Benzene	u u	13	7	u	u	u	6	u	u
Toluene	น	ų	u,	u	u	u	u,	u	u
Et hylbenzene .	u	u	6	u	u	u	5	บ	u
Total Xylenes	ប	u	17	u	u	11	15	u	u
Non-targeted Peaks $(1)$									
Acelone									
Methyl Cyclopentane Isomer	u	u	8	u	u	u	8	u	u
Unknown	ŭ	u	81	υ	u	u	77	u	u
Petroleum Hydrocarbons (ppm)	u	u	u	u	u	u	u	u	u

NOTE: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

Source: First Environment, 1989a

W

<sup>\* =</sup> Estimated value, below the detection limit

v = Undetected

<sup>(1) =</sup> Estimated concentrations of tentatively identified compounds

PRELIMINARY	SOIL SAMPLING RESI	JLTS
CATCH	BASIN/STORM SEWER	SYSTEM
	OCTOBER 26, 1988	

SAMPLE LOCATION SAMPLE DEPTH		SS-1 58"	SS-2 	SS-3 _38"	SS-4 _34"	55-5 34"	SS-6 32"	SS-7 32"	SS-8 	SS-9 _50"	ss-10 _26"
/olatile Organics (ppb)											
Targeted Peaks											
				•							
Methylene Chloride		บ	u	น่	u	u	7	u	น	u	u
1,1-Dichloroethylene		u	t <u>ı</u>	u	u	u	u	u	u	u	u
T-1,2-Dichloroethylene		u	11,	u	u	u	U	u	u	13	u
Trichloroethylene		u	5	u	11	11	13	u	u	100	tı
Tetrachloroethylene		u	u	u	u	u	u .	u	บ	u	u
Non-targeted Peaks (1)											
Unknown Hexane Isomer		6	6	u	6	u	8	6	u	9	16
Unknown Hydrocarbon		u	u	u	u	u	u	u	u	u	u
Unknown		u	u	u	u	u	u	u	u	u	u
Petroleum Hydrocarbons (ppm)	case-by-case	u	140	u	u	u	u	u	3,000	92	490

NOTE: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

Source: First Environment, 1989a

300105



<sup>\* \*</sup> Estimated value, below the detection limit

u = Undetected

<sup>(1) =</sup> Estimated concentration of tentatively identified compounds

TABLE 3.9 (continued)

### Preliminary Soil Sampling Results Catch Basin/Storm Sewer System - October 26, 1988

PLE LOCATION PLE DEPTH	SS-11	SS-12 _35"	SS-13	\$\$-14 <u>34"</u>	SS-15 _32"	\$\$-16 27"	SS-17 50"	ss-18 _50"	ТВ <u>ТАНК</u>	FIELD BLANK
atile Organics (ppb)										
irgeled Peaks										
fethylene Chloride ,1-Dichloroethylene '-1,2-Dichloroethylene 'richloroethylene 'etrachloroethylene on-targeted Peaks (1)	ນ 9 175 ຜ	u 14 200 u	u 20 * 200 '	บ 7 61 น	u 23 220 37	u 1700 4200 u	10 8100 2900 1600	8 2800 1300 900	ս ս ս ս	บ บ บ บ
Inknown Hexane Isomer Inknown Hydrocarbon Inknown	น น น	15 u u	บ น บ	u u u	ប ប ប	u 53,400 u	ս ս 22	u u 32	บ น น	น ช น
roleum Hydrocarbons (ppm)	600	u	u	42	170	13000	1300	350	u	u

TE: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

ource: First Environment, 1989a



<sup>·</sup> Estimated value, below the detection limit

<sup>·</sup> Undetected

<sup>) =</sup> Estimated concentrations of tentatively identified compounds

TABLE 3.10

## POST EXCAVATION SOIL SAMPLING RESULTS CATCH BASIN/STORM SEWER SYSTEM FEBRUARY 9, 1989

SAMPLE LOCATION SAMPLE DEPTH	SS-10 	SS-11 8'	SS-12 	SS-13 8'	SS-14 8'	SS-15	SS-16	SS-17	SS-18	SS-19 	\$\$-20 9'	TR I P BLANK	<u>BLANK</u>
Volatile Organics (ppb)													
Targeted Peaks													
Methylene Chloride T-1,2-Dichloroethylene		u u	u , 4	ง น	u 10	u 93	u u	u 6	և, 5	บ น <b>.</b>	28 ** u	u u	u u
Trichloroethylene Tetrachloroethylene		u u	6 u	u u	6 u	250 17	u	7 u	u u	5 " u	u u	น บ	u u
Non-targeted Peaks (1)													
Acetone Unknown		บ บ	130 5	u u	u u	ម u	u u	u u	u u	u u	u u	u u	u u
Petroleum Hydrocarbons (ppm)	u	u	52	น	42			<b>-</b> -					u

NOTE: Analytes detected in both the sample and laboratory blank indicate laboratory cause contamination and are therefore not included in this table.

Source: First Environment, 1989a



<sup>-- =</sup> Not analyzed

<sup>\* =</sup> Estimated value, below the detection limit

<sup>\*\* =</sup> Found in corresponding method blank, but is probably in the sample as well

ı ≂ Undetected

<sup>(1) =</sup> Estimated concentrations of tentatively identified compounds

# TABLE 3.11 ANALYTICAL RESULTS LEACHING PIT INVERT SOIL SAMPLING VOLATILE ORGANIC COMPOUNDS BY GC SCREEN\* DECEMBER 14, 1987

Sample ID	t 1,2-dichloroethylene	TCE	PCE	Unknowns
Trip Blank	ND	ND	ND	ND
Soil from 11-foot depth	19	87	370	77**

- \* Values are reported in ppb on a wet-weight basis; dry weight values may be as much as 3ppb higher for each compound.
- \*\* Breakdown of unknown compounds:

	Retention Time	Est. Concentration	(ppb)
unk hydrocarbon unk hydrocarbon unk alkane	26.9 32.2 30.5	7 45 25	

Source: First Environment, 1989

·	i		I	1	er e	1	Í	I	1	TABLE 3.12	1	1	d a	1	ł	l	ł	ļ	
---	---	--	---	---	------------------------------------------	---	---	---	---	------------	---	---	-----	---	---	---	---	---	--

				IARL	.E 3.12							
SOIL SAMPLING RESULTS  MONITORING WELL MW-6S  NOVEMBER 5, 1988												
SAMPLE LOCATION SAMPLE DEPTH	MW-6S SOILS 1-3'	MW-GS SOILS 3-5'	MW-65 SOILS 5-7'	MW-68 SOILS 7-9'	MW-6S SOILS 9-11'	MW-6S SOILS 11-13'	MW-68 8011.8 13-15'	MW-6S SOILS 15-17'	MW-6S SO1LS 17-19'	DUP-1 SOILS (9-1)')	TRIP BLANK	FIELD BLANK
Volatile Organics (ppb)												
Targeted Peaks												
T-1,2-Dichloroethylene Trichloroethylene Tetrachloroethylene Non-targeted Peaks(1)	ບ ບ ນ	น น ม	ն Կ Ծ	u u u	u u u	u u u	บ น บ	ս ս , Տ	6* 13 57	ប u ប	<i>ប</i> ប ម	บ บ น
Acetone Unknown Hexane Isomer	u u	u u	u u	u u	38 u	u * *	7	u u	u , , 5	u * * 5	u u	u u

NOTE: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

Source: First Environment, 1989a



<sup>\* =</sup> Estimated value, below the detection limit

<sup>\*\* ≈</sup> Not found in the corresponding method blank, but it is a common laboratory contaminant

u ≈ Undetected

<sup>(1) =</sup> Estimated concentrations of tentatively identified compounds

1	}	)	)	1	1	Aria ytica kesurus	Ì	j	1	I	1	i	1
				}	ost Exc	avation Soil Sampling - L	eaching	Pit					
						February 10. 1989							

SAMPLE LOCATION	ECRA	SS-21	\$5-22	SS-23	\$\$-24	SS-25	\$\$-26	SS-27	SS-28	SS-29	ss-30
SAMPLE DEPTH	GUIDELINES	12.5'	12.5'	12.5	12.5'	12.5'	12.5'	12.5'	)2.5'	12.5'	11.5'
Volatile Organics (ppb)	1,000										
Targeted Peaks					•						
Tetrachloroethylene	e	บ	u	u	33	30	น	น	38	6	u
Methylene Chloride		<b>น</b>	U	U	U	ປ	<i>น</i>	<i>น</i>	U	U	U
Non-Largeted Peaks (1)		น	u	u	u	ບ	บ	บ	586	94	u

NOTE: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

Source: First Environment, 1989a

<sup>(1) =</sup> Estimated concentrations of tentatively identified compounds
\* = Methylene chloride was detected in the sample as well as in the laboratoryblank. Background contribution, if adjusted for sample dilution calculates to an estimated 40 ppb of methylene chloride.

TABLE 3.13 (continued) Analytical Results Post Excavation Soil Sampling - Leaching Pit February 10, 1989

PLE LOCATION PLE DEPTH	\$5-31 11.5'	\$5-32 11.5'	35-33 11.5'	\$\$-34 7.51	\$5-35 7.5'	35-16 7.5'	\$5-37 _7.5'	SS-38 7.5'	TRIP BLANK	PLANK BLANK
atile Organics (ppb)										
rgetod Peaks										
'etrachloroethylene lethylene Chioride n-targeted Peaks	160 190* 34,900	10 U	บ น บ	U U U	u U II	บ น บ	บ น บ	น U บ	u U u	บ U บ

#### · Undetocted

irce: First Environment, August 1989a

<sup>≠</sup> Estimated concentrations of tentaively identified compounds •Methylene chloride was detected in the sample as well as in the laboratory blank. Background contribution, if adjusted for sample dilution calculates to an estimated 40 ppb of methylene chloride.

E: Analytes detected in both the sample and laboratory blank indicate laboratory contamination and are therefore not included in this table.

**TABLE 3.14** 

# ANALYTICAL RESULTS SOIL SAMPLING IN THE DEGREASER PIT, ALLEYWAY, SCALE ROOM AND QUONSET HUT AREAS

<u>LOCATION</u>	<u>SAMPLE</u>	DATE	<u>DEPTH</u>	TCE (ppm)	<u>PCE</u> (ppm)	<u>T-1,2 DCE</u> (ppm)
Degreaser Pit	SS-39	9/21/89	10-14"*	u	u	u
	SS-40	9/21/89	10-14"*	u	u	u
	SS-1	1/17/92	2.5-3'	0.430	0.150	u
	SS-2	1/17/92	2.5-3'	0.180	0.140	u
Alleyway	"At Back Door"	7/24/90	1.5-2'	u	u	3.2
	SS-3	1/20/92	2.5-3'	0.670	0.021	u
Scale Room	"Funnel Area"	7/24/90	14-20" ·	16.000	0.012	1.100
Quonset Hut	SS-4	1/20/92	2.5-3'	2.300	2.500	u

TCE Trichloroethylene

PCE Tetrachloroethylene

T-1,2 DCE - Trans - 1,2 - Dichloroethylene

U Undetected

\* Sample collected below pit invert

NOTE: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and therefore are not included in this table.

Source: First Environment, 1989c and 1992



TABLE 3.15

FIELD SCREENING RESULTS FOR SOIL VAPOR SAMPLES COLLECTED IN THE DEGREASER PIT AREA

SAMPLE ID SAMPLE DEPTH	VD-1-VP 4.0'	VD-2-VP <u>3.0'</u>	VD-2-VP 5.0'	VD-3-VP 3.0'	VD-3-VP 5.0'	VD-4-VP 3.0'	VD-5-VP 3.0'	VD-5-VP <u>5.0'</u>
Trichloroethene	6,000	34,000	17,000	65,000	40,000	30,000	87,000	106,000 <sup>(1)</sup>
Tetrachloroethene	1,000	11,000	5,000	18,000	8,000	1,000	7,000	8,000

ppb - Parts per billion

Field screen results with Photovac 10S50 in accordance with NJDEPE "Field Delineation of Volatile Contamination using Ambient Temperature Headspace Analysis".

NOTE: Samples collected on December 19 and 20, 1991 and January 10 and 17, 1992

Source: First Environment, 1992

<sup>(1) -</sup> Estimated value; beyond calibration range

Page 2 of 3

## TABLE 3.15 (continued) FIELD SCREENING RESULTS FOR SOIL VAPOR SAMPLES COLLECTED IN THE DEGREASER PIT AREA

SAMPLE ID SAMPLE DEPTH	VD-6-VP 3.0'	VD-7-VP <u>3.0'</u>	VD-8-VP 3.0'	VD-9-VP 3.0'	VD-9-VP <u>5.0'</u>	VD-10-VP 3.0'	VD-11-VP 3.0'	VD-11-VP <u>5.0'</u>
Trichloroethene	54,000	1,000	36,000	125,000 <sup>(1)</sup>	90,000	105,000 <sup>(1)</sup>	16,000	7,000
Tetrachloroethene	40,000	1,000	32,500	14,000	25,000	12,000	5,000	5,000

ppb = Parts per billion

(1) - Estimated value; beyond calibration range

Field screen results with Photovac 10S50 in accordance with NJDEPE "Field Delineation of Volatile Contamination using Ambient Temperature Headspace Analysis".

NOTE: Samples collected on December 19 and 20, 1991 and January 10 and 17, 1992

Source: First Environment, 1992

Page 3 of 3

# TABLE 3.15 (continued) FIELD SCREENING RESULTS FOR SOIL VAPOR SAMPLES COLLECTED IN THE DEGREASER PIT AREA

SAMPLE ID SAMPLE DEPTH	VD-12-VP 3.0'	VD-13-VP 3.0'	VD-14-VP 3.0'	VD-15-VP 3.0'	VD-16-VP 3.0'	VD-17-VP 3.0'	VD-17-VP <u>5.0'</u>	VD-1.8-VP 3.0'	VD-19-VP 3.0'
Trichloroethene	110,000 <sup>(1)</sup>	94,000	90,000	54,000	80,000	94,000	24,000	96,000	80,000
Tetrachloroethene	75,000	93,000	97,000	80,000	80,000	15,000	1,000	55,000	20,000

.

ppb = Parts per billion

(1) - Estimated value; beyond calibration range

Field screen results with Photovac 10S50 in accordance with NJDEPE "Field Delineation of Volatile Contamination using Ambient Temperature Headspace Analysis".

NOTE: Samples collected on December 19 and 20, 1991 and January 10 and 17, 1992

Source: First Environment , 1992

FIELD SCREENING RESULTS FOR SOIL VAPOR SAMPLES COLLECTED IN THE ALLEYWAY, SCALE ROOM, QUONSET HUT AND LOADING DOCK AREAS

**TABLE 3.16** 

	<b>LOCATION</b>	<b>SAMPLE</b>	<b>DATE</b>	<u>DEPTH</u>	TCE*	PCE*	<u>T-1,2-DCE*</u>
<del>,</del>	Alleyway	"Back Door Area"	7/24/90	10"	u	u	u
		"At Back Door"	7/24/90	18-24"	0.006	u	u
***************************************		AL-1	12/19/91	18"	0.090	0.015	u
		AL-2	12/19/91	12-18"	0.630	u	u
		AL-3	12/19/91	12-18"	2.400	u	น
		AL-4-VP	1/13/92	3'	20.000	u	u
		AL-5-VP	1/13/92	3'	60.000	u	u
ANDERSON		AL-6-VP	1/13/92	3'	5.000	u	u
		AL-7-VP	1/13/92	3'	5.000	u	и
<del></del>	Scale Room	"Funnel Pipe"	7/24/90		u	u	u
<b></b>		"Scale Pit Bottom Sludge"	7/24/90	~	u	u	u
TUCHA		"Funnel Area"	7/24/90	14-20"	4.580	u	u
<sub>App</sub> , comb	Quonset Hut	QH-1	12/19/91	14-18"	0.320	<0.01 0	u
****		QH-2	12/19/91	14-18"	1.710	2.500	u
		QH-3	12/19/91	14-18"	0.950	0.100	u
974°-3		QH-4	12/19/91	14-18"	0.390	u	u
_	Loading Dock	LD-1-VP	1/13/92	3'	<1.00 0	u	u
		LD-2-VP	1/13/92	3'	u	u	u
-		LD-3-VP	1/13/92	3'	u	u	u

#### TABLE 3.16 (continued)

### FIELD SCREENING RESULTS FOR SOIL VAPOR SAMPLES COLLECTED IN THE ALLEYWAY, SCALE ROOM, QUONSET HUT AND LOADING DOCK AREAS

u Undetected

--- Not applicable

TCE Trichloroethylene

PCE Tetrachloroethylene

T-1,2 - DCE - Trans - 1,2 - Dichloroethylene

\* Results presented in parts per million (ppm)

NOTE: Field screen results with Photovac 10S50 or 10S70 in accordance with NJDEP

"Field Delineation of Volatile Contamination Using Ambient Temperature

Headspace Analysis"

Source: First Environment, 1992



Table 3.17
Summary of Groundwater Sampling Results
Shallow Monitoring Wells

PARAMETERS	MW1: (6/30/87)		MW25 (6/30/87)		MW3 (7/2/87) (	
VOLATILE ORGANIC COMPOUNDS (ppb) Trans-1,2-dichloroethylene Trichloroethylene Totrachloroethylene	130 230 22	43 78 N.D.	51 100 <u>N.D.</u>	97 280 <u>28</u>	N.D. 10 50	N.D. 15 82
Total	382	121	151	405	60	97
BASE/NEUTRALS + 15	N.D.	*	н.Б.	*	N.D.	*
PRIORITY POLLUTANT METALS (ppm)						
Aresnic Chromium Copper Lead Zinc Nickel	0.007 0.009 0.04 0.023 0.09 N.D.	N.D. 0.014 0.012 0.015 0.07	0.014 0.028 0.07 0.047 0.017 N.D.	N.D. 0.02 0.025 0.025 0.08 0.16	0.014 0.019 0.04 0.109 0.14 N.D.	N.D. N.D. N.D. N.D. 0.04 N.D.
PETROLEUM HYDROCARBONS (ppb)	N.D.	*	N.D.	*	N.D.	*
FIELD MEASUREMENTS						
ph Specific Conductance (ohms/cm) Temperature (°C)	8.8 496 11.3	* *	8.8 193 17	* * *	* *	* *

<sup>\*</sup> Parameter Not Tested for N.D. Not detected

Source: MES, 1987

<sup>\*\*</sup> Identified but below detection limit

ļ	1	1	l	1	1	1 ARI	j. 18	Ţ	I	]	Î	1	1	1	1
				SHALL	W GROUNDW	ATER SAMPLE	ING RESUL	T'S							
					D	ECEMBER 14.	, 1988								

PLE LOCATION	KW-18	<u> MW - 25</u>	<u> HW - 35</u>	<u> MW - 5S</u>	HH-65	DUP (MW-2S)	TRIP BLANK	FIELD BLANK
atile Organics (ppb)								
rgeted Penks								
-1,2-Dichloroethylenc hloroform arbon Tetrachloride ríchloroethylene etrachloroethylene	1 } u u 74 u	320 u u 430 41	u 15 89	6 u u 260 51	24. 3 12 41 150	310 u u 460 40	บ บ บ บ	ម ប ប ប
n-targeted Peaks	u	u	* u	u	u	u	u	u
.e/Neutrals (ppb)								
rgeted Peaks								
3is(2-ethylhexyl)phthalate 3i-n-butyl phthalate 3n-targeted Peaks (1)			••	ن ١	u u			u u
Holecular Bulfur Cyclohexadecana				4 U	u 10		••	u u
.als (ppm)								
rsenic Ladmium Chromium Copper Lead Rercury Rickel Zinc				0.02) 0.002 0.075 0.100 0.149 0.0006 0.117 0.365	0.009 u 0.021 u 0.034 u 0.079			u u u u u u u
troleum Hydrocarbons (ppm)	• -	• •	~-	u	u			U

<sup>=</sup> Not analyzed

<sup>=</sup> Estimated value, below the detection limit

<sup>1) =</sup> Estimated concentrations of tentatively identified compounds

THE: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefère not included in this table.

ource: First Environment, 1989a

### TABLE 3.19 ANALYTICAL RESULTS SHALLOW GROUNDWATER SAMPLING SEPTEMBER 1989

SAMPLE LOCATION SAMPLE DATE	mw-1s <u>9/25/89</u>	mw-2s <u>9/27/89</u>	mw-3s <u>9/25/89</u>	MW-48 <u>9/25/89</u>	mw-58 <u>9/25/89</u>
Volatile Organics (ppb)					
Targeted Peaks					
1,1-Dichloroethylene Total-1,2-Dichloroethylene	: ù · 85	u 180	u 15	u 460	7 u
Chloroform	u	u	u	u	u
Carbon Tetrachloride	u	u	u	u	u
Trichlorethylene	100	260	12	350	46
Tetrachloroethylene	u	29	97	u	21
Non-targeted Peaks (1)	น	250	u	u	u

u - Undetected

Note: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

<sup>\* -</sup> Estimated value, below detection limit

<sup>(1) -</sup> Estimated concentration or centatively identified compounds

Table 3.20 Summary of Groundwater Sampling Results Deep Monitoring Wells

		w1D (8/10/87)	MW: (6/30/87)		MD (7/1/87)		SAI-5 (8/7/87)	SAI-7 (8/7/87)
PARAMETERS								
VOLATILE ORGANIC COMPOUNDS (ppb) Trans-1, 2-dichlorocthylene Trichloroethylene Tetrachloroethylene	но 23 <u>но</u>	ND 14 <u>6</u>	20 120 <u>ND</u>	150 730 ND	ND 180 <u>ND</u>	ND 41 <u>ND</u>	ир Ир <u>Ир</u>	3** 170 • ND
Total	23	20	140	880	180	41	0	170
BASE/NEUTRALS + 15	*	*	*	*	*	*	*	*
PRIORITY POLLUTANT METALS (ppm)			•					
Aresnic	*	*	*	*	*	*	*	*
Chromium	*	*	*	*	*	*	*	*
Copper	*	*	*	*	*	*	*	*
Lead 2inc		*		*	*	*	*	*
Nickel	*	*	*	*	*	*	*	*
PETROLEUM HYDROCARBONS	*	*	*	*	*	*	*	*
FIELD MEASUREMENTS								
pH Specific Conductance (ohms/cm Temperature (°C)	8.6 472 20	7.3 541 21.8	8.5 367 17.2	* *	7.6 575 17.3	7.9 486 23.9	8.6 638 18.4	9.4 365 17.1

Source: MES, 1987

<sup>\*</sup>Parameter not tested for N.D. Not detected \*\* Identified but below detection limit

# TABLE 3. 20 (continued) ANALYTICAL RESULTS SHALLOW GROUNDWATER SAMPLING SEPTEMBER 1989

SAMPLE LOCATION SAMPLE DATE	mw-6s <u>9/25/89</u>	mw-7s <u>9/25/89</u>
Volatile Organics (ppb)		
Targeted Peaks	155	458
1,1-Dichloroethyelene Total-1,2-Dichloroethylene Chloroform Carbon Tetrachloride Trichloroethylene Tetrachloroethylene	23 3* 3* 33 99	2* u u 78 380
Non-targeted Peaks (1)	u	u

u - Undetected

\* - Estimated value, below detection limit

(1) - Estimated concentration of tentatively identified compounds

Note: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

TABLE 3.21

### DEEP GROUNDWATER SAMPLING RESULTS MONITORING WELL MW-4D NOVEMBER 25, 1987

يحين	SAMPLE LOCATION	<u>MW-4D</u>	BLANK	BLANK
	Volatile Organics (ppb)			
*****	Targeted Peaks			
	Trichloroethylene	42	u	u
	Non-targeted Peaks (1)	u	u	u

U = Undetected

(1) = Estimated concentration of tentatively identified compounds.

# TABLE 3.22 ANALYTICAL RESULTS DEEP GROUNDWATER SAMPLES SEPTEMBER 1989

SAMPLE LOCATION SAMPLE DATE	SAI-5 9/27/89	MW-1D <u>9/25/89</u>	MW-2D 9/27/89	MW-3D 9/25/89	MW-4D <u>9/25/89</u>
Volatile Organics (ppb)					
Targeted Peaks					
1,1-Dichloroethylene	u	u	u	u	u
Total-1,2-Dichloroethylene	, u	u	220	9	11
Chloroform	i u	u	u	u	u
Carbon Tetrachloride	u	u	u	u	u
Trichloroethylene	u	14	3,600*	540*	110
Tetrachloroethylene	u,	u	10	5 ̂	u
Non-targeted Peaks (1)	u	u	u	u	u

Note: Analytes detected in both the sample and laboratory blank indicate

laboratory caused contamination and are therefore not included in this table.

u - Undetected

<sup>\* -</sup> Estimated value, below detection limit

<sup>(1) -</sup> Estimated concentration of tentatively identified compounds

## TABLE 3.22 (continued) ANALYTICAL RESULTS DEEP GROUNDWATER SAMPLES SEPTEMBER 1989

SAMPLE LOCATION SAMPLE DATE		TRIP BLANK 9/25/89	FIELD BLANK 9/25/89	TRIP BLANK 9/27/89	FIELD BLANK <u>9/27/89</u>
Volatile Organics (ppb)					
Targeted Peaks		u	u	u	u
1,1-Dichloroethylene Total-1,2-Dichloroethylene		u u	u u	u u	u - u
Chloroform	•	u	u	u	u
Carbon Tetrachloride		u	u	u	u
Trichloroethylene		u	u	u	u
Tetrachloroethylene		u	u	u	u
Non-targeted Peaks (1)		u	u	u	u

u - Undetected

\* - Estimated concentration, below detection limit

(1) - Estimated concentration of tentatively identified compounds

Note: Analytes detected in both the sample and laboratory blank indicate laboratory caused contamination and are therefore not included in this table.

## TABLE 3.22 (continued) ANALYTICAL RESULTS DEEP GROUNDWATER SAMPLES SEPTEMBER 1989

SAMPLE LOCATION SAMPLE DATE	MW-5D <u>9/27/89</u>	MW-6D 9/25/89	DUPLICATE (SAI-5) 9/27/89
Volatile Organics (ppb)			
Targeted Peaks			
1,1-Dichloroethylene	u	u	u
Total-1,2-Dichloroethylene	u	u	u
Chloroform	tt	u	u
Carbon Tetrachloride	, u	u*	u
Trichloroethylene	1.6	4 ^	u
Tetrachloroethylene	ប	u	u
Non-targeted Peaks (1)	10	u	u

(1) - Estimated concentration of tentatively identified compounds

Note: Analytes detected in both the sample and laboratory blank indicate

laboratory caused contamination and are therefore not included in this table.

a - Actual value is 4.7 ppb

u - Undetected

<sup>\* -</sup> Estimated value, below detection limit

#### **TABLE 3.23**

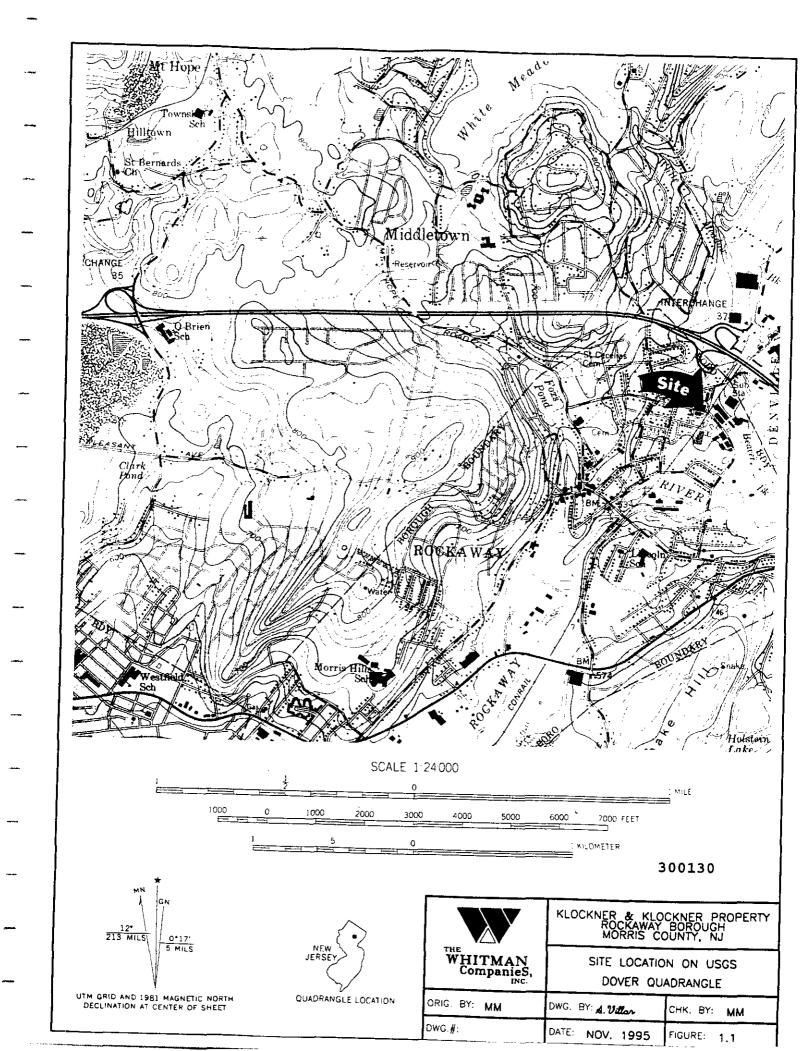
#### ANALYTICAL RESULTS NJDEP SAMPLING ACTIVITIES OCTOBER 9, 1986

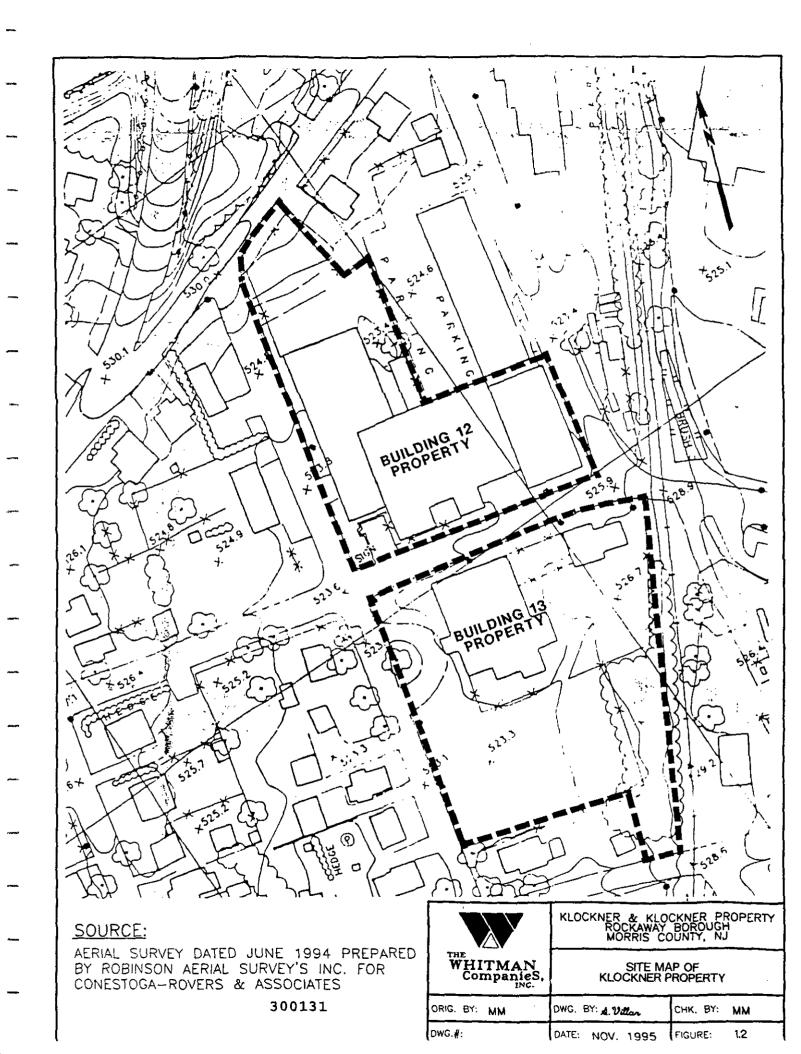
Location Sample	Drywell PM005	Tank Contents PM006
Volatile Organic Compounds + 15 (ug/	<u>(1)</u>	
Benzene	u	50
Ethylbenzene	u	140
Methylene Chloride	1,510*	116*
Toluene	u	413
Total Xylenes	u	8,100
Library Search <sup>(1)</sup>	3,300	4,370
Base/Neutral/Acid Extractable Compou	unds + 25 (ug/l)	
Bis(2-ethyl hexyl) phthalate	80.7	
Butyl benzyl phthalate	33.2	
Naphthalene	5,980	
Library Search (1)	35,474	
Petroleum Hydrocarbons (mg/l)	4.7	
Not-analyzed for parameter		
u Undetected		
* Contaminant also detected in blan	k and is likely due to lab	oratory contamination
Source: ETC, 1986		
•		

#### **FIGURES**

- 1.1 Site Location on U.S.G.S. Dover, NJ Quadrangle
- 1.2 Site Map of Klockner Property
- 1.3 Rockaway Borough Well Location Map
- 2.1 Site Map Building 12
- 2.2 Site Map Building 13
- 2.3 1924 Sanborn Insurance Map
- 2.4 1944 Sanborn Insurance Map
- 2.5 1951 Sanborn Insurance Map
- 2.6 1940 Aerial Photograph
- 2.7 1951 Aerial Photograph
- 2.8 1966 Aerial Photograph
- 2.9 Geologic and Hydrogeologic Cross Section
- 2.10 Topography of Klockner Property
- 3.1 Site Map of Klockner Property
- 3.2 Thiokol Operations Building 12
- 3.3 Masden Industries Operations Building 12 Area A
- 3.4 Underground Storage Tanks Sample Locations
- 3.5 Catch Basin/Storm Sewer Sample and Excavation Locations
- 3.6 Leaching Pit Post Excavation Soil Sample Locations
- 3.7 Degreaser Pit Sample Locations
- 3.8 Alley Way Sample Locations
- 3.9 Scale Room Sample Locations
- 3.10 Quonset Hut Sample Locations
- 3.11 Loading Dock Sample Locations
- 3.12 Monitoring Well Locations
- 3.13 Isoconcentration Map of PCE in the Shallow Ground Water
- 3.14 Isoconcentration Map of TCE in the Shallow Ground Water
- 3.15 Shelby Tube Test Results Sample Location SB1-90
- 3.16 Soil Gas Survey for PCE
- 3.17 Summary of PCE Contamination Detected at Building 12 Property
- 3.18 Summary of TCE Contamination Detected at Building 12 Property











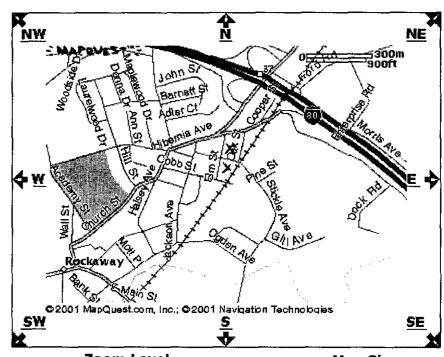


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#### **Map Results**

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#### Get another map Address or Stickle Avenue Street Address/street mapping for U.S., Canada, and parts of Europe only. Use numbers where possible (1 5th Ave, not One Fifth Ave). Leave off apartment numbers. **City** Rockaway **New Jersey** State/Province 300132 ZIP/Postal

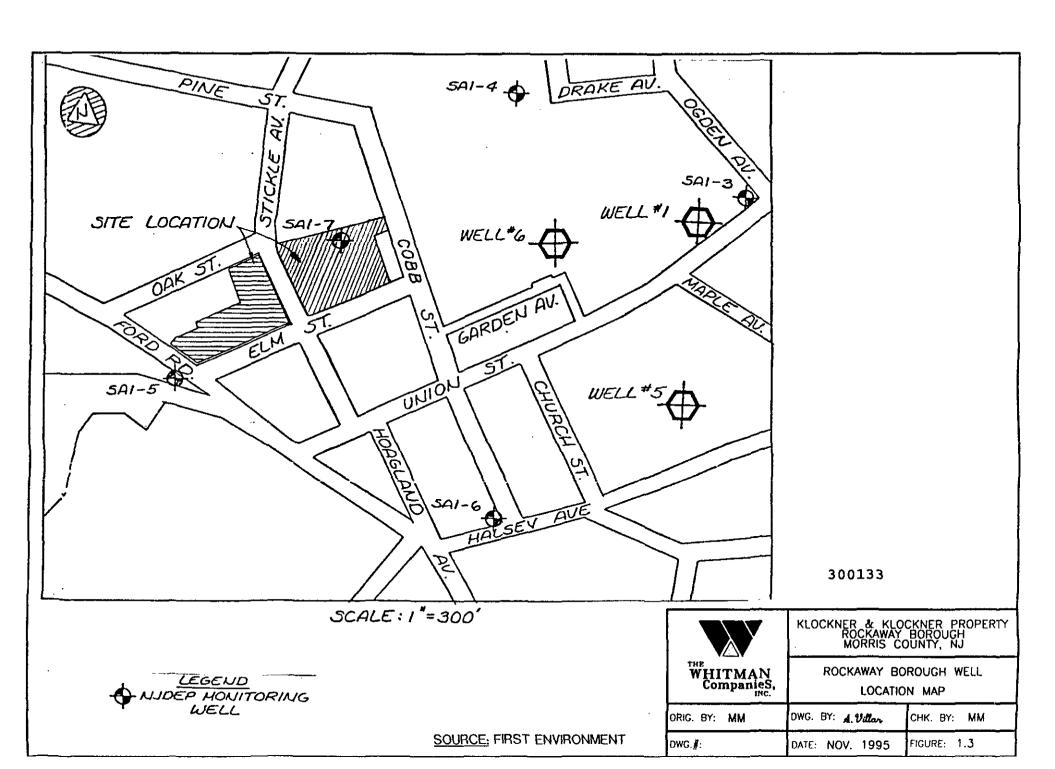
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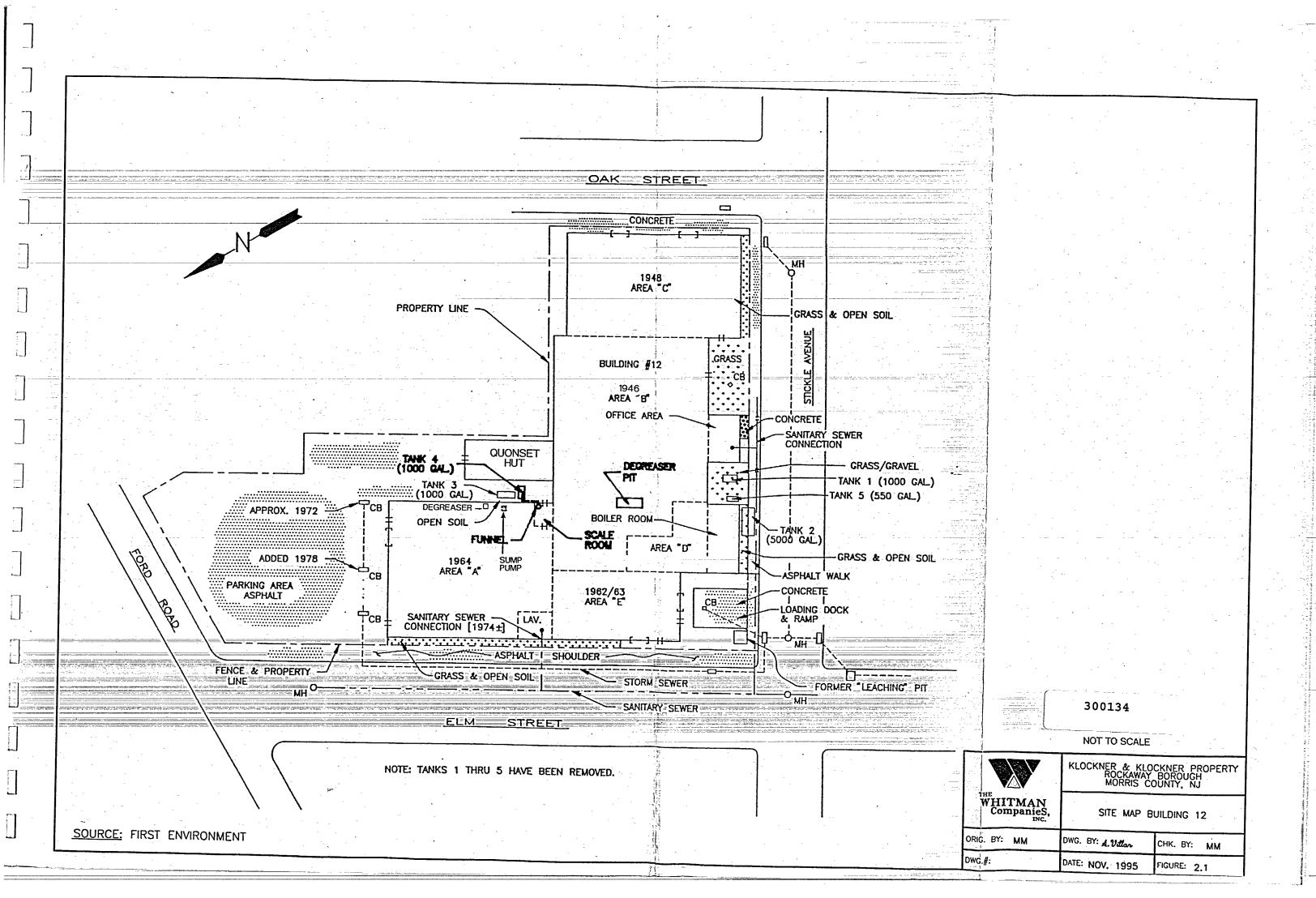
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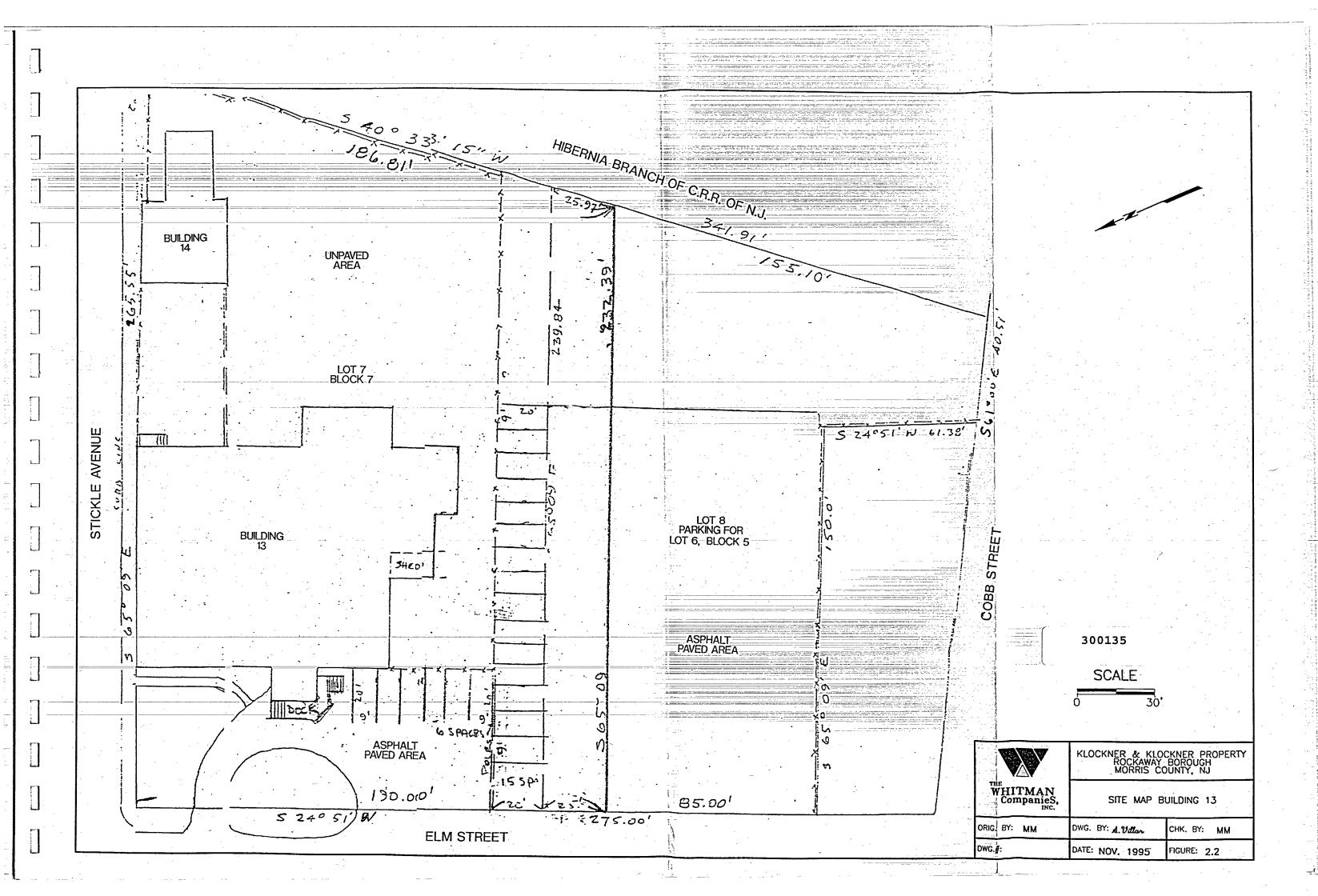
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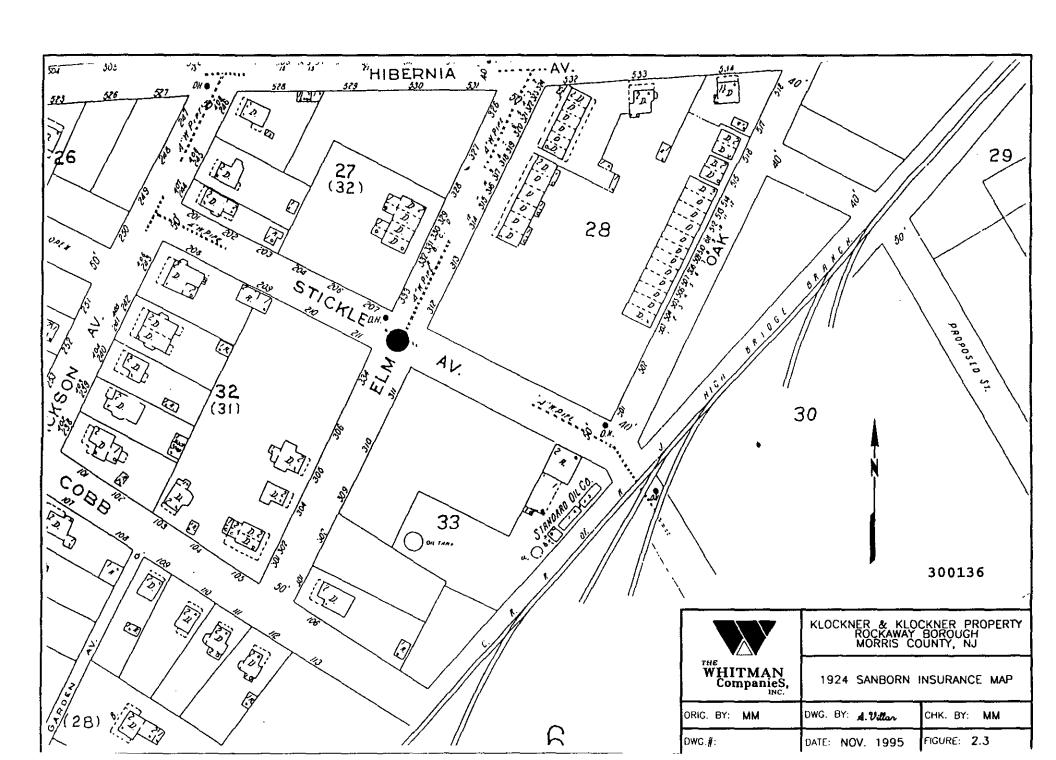
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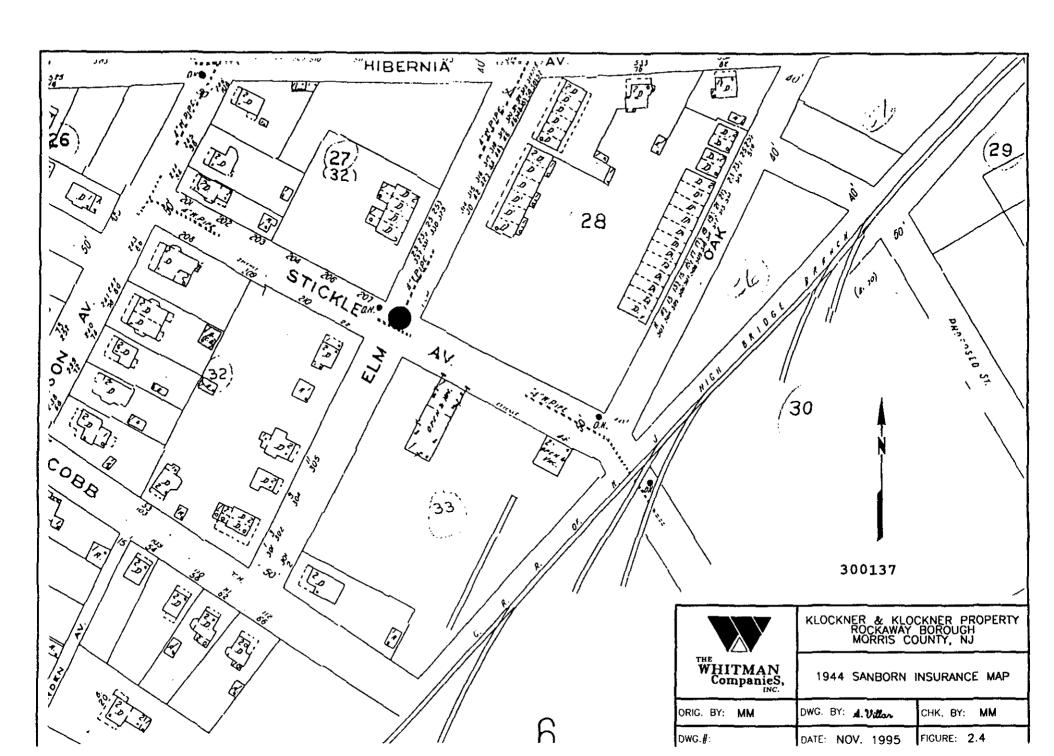
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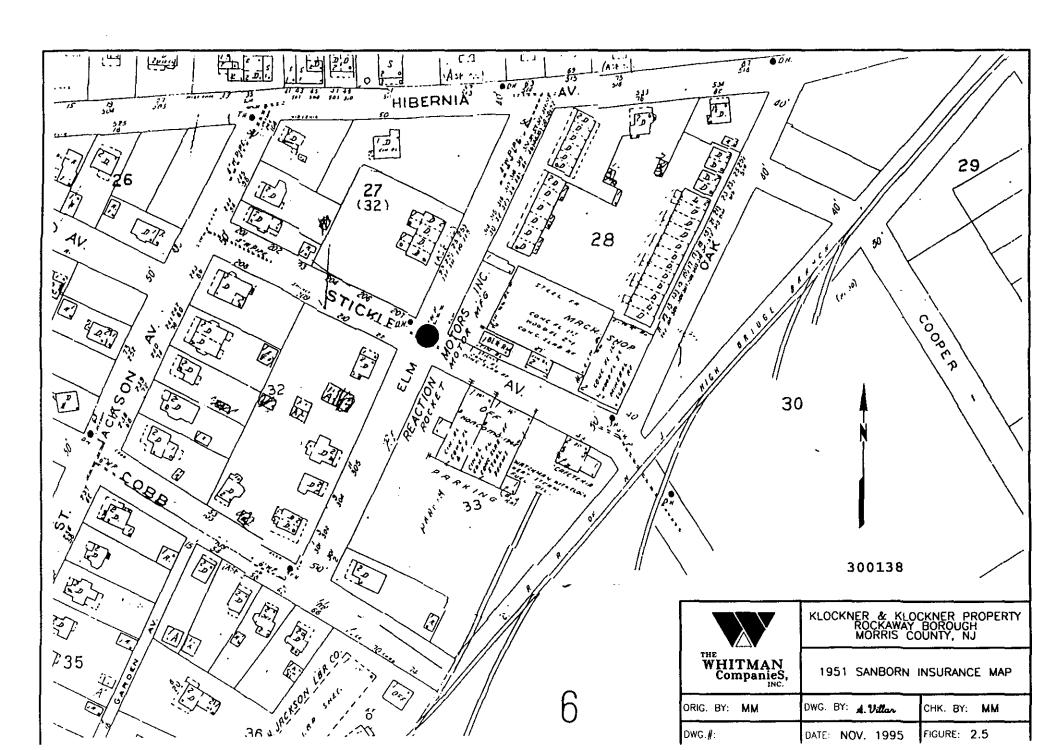






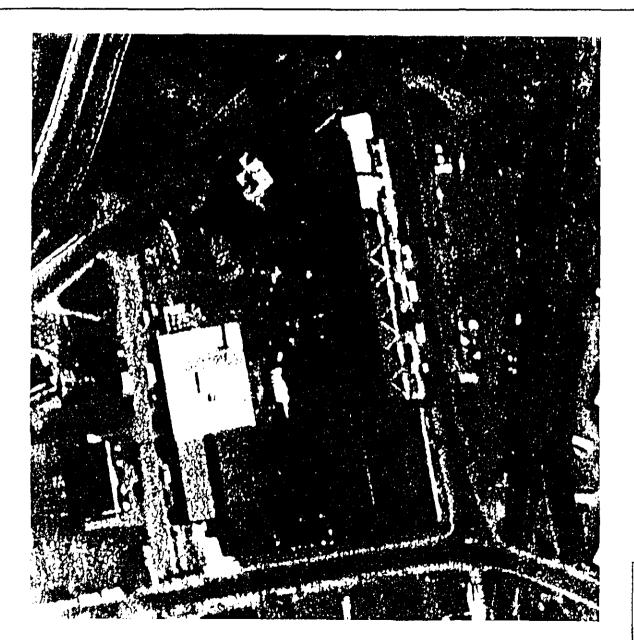




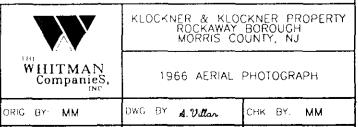


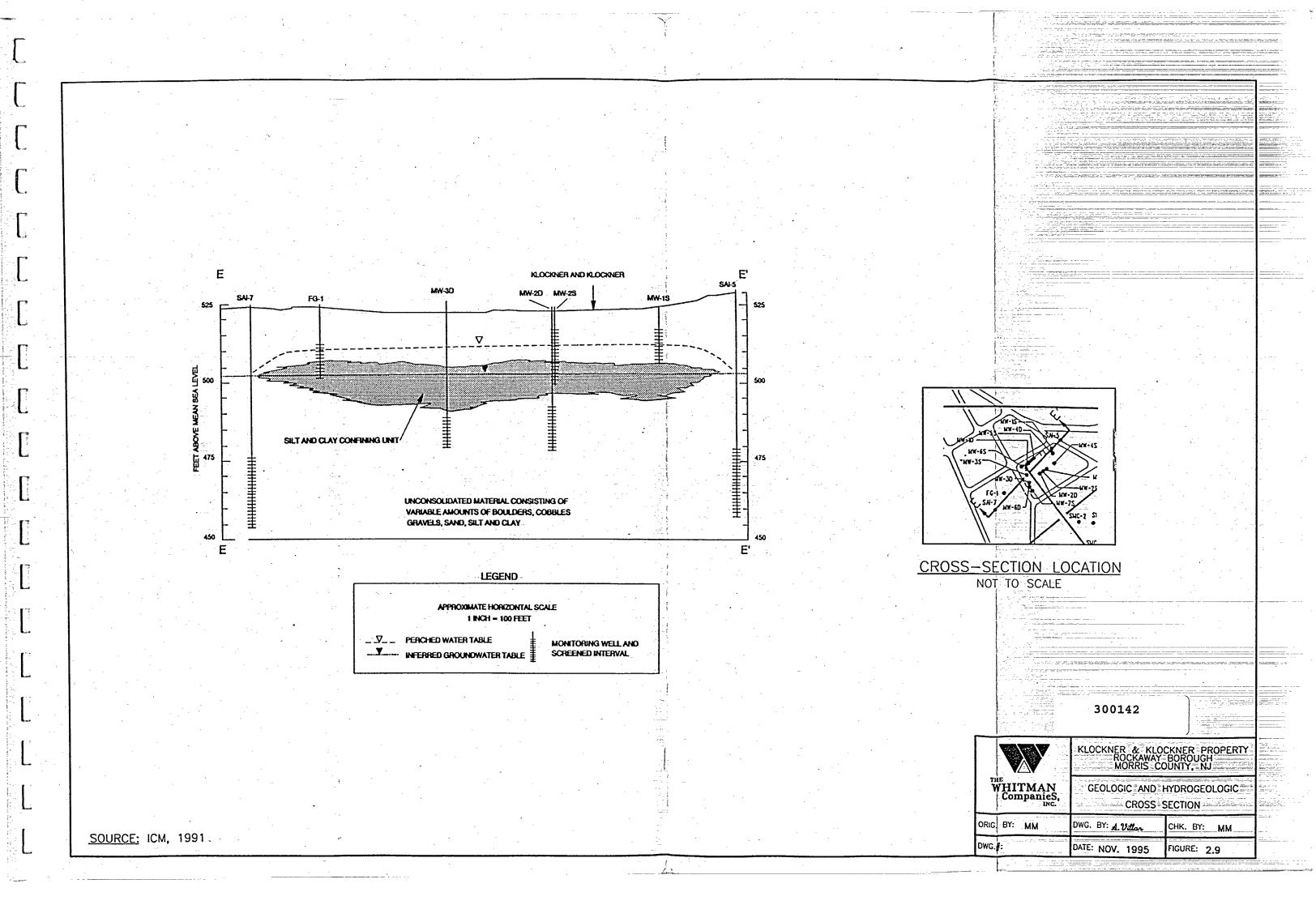


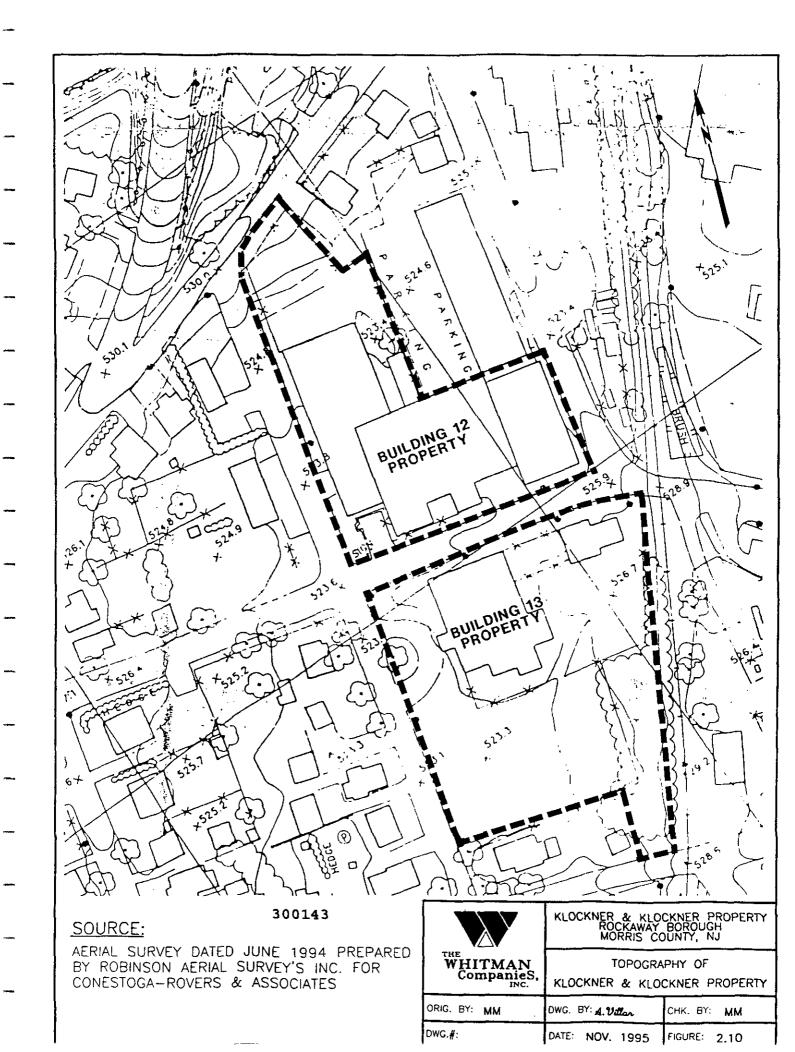


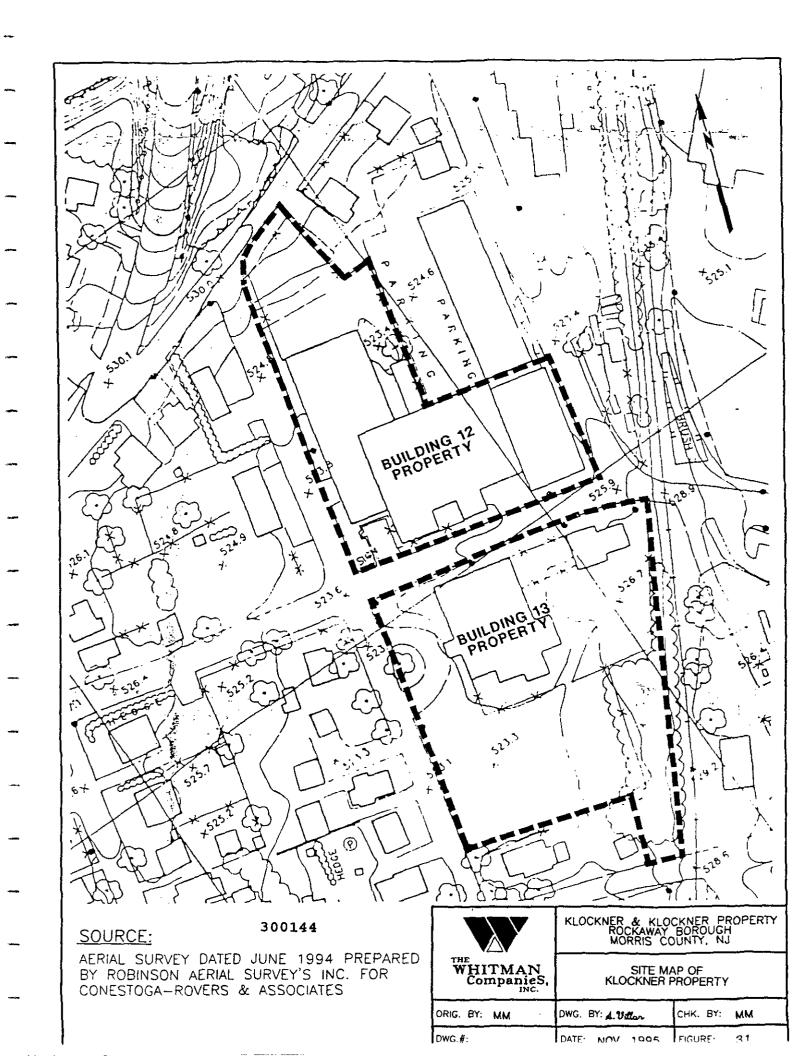


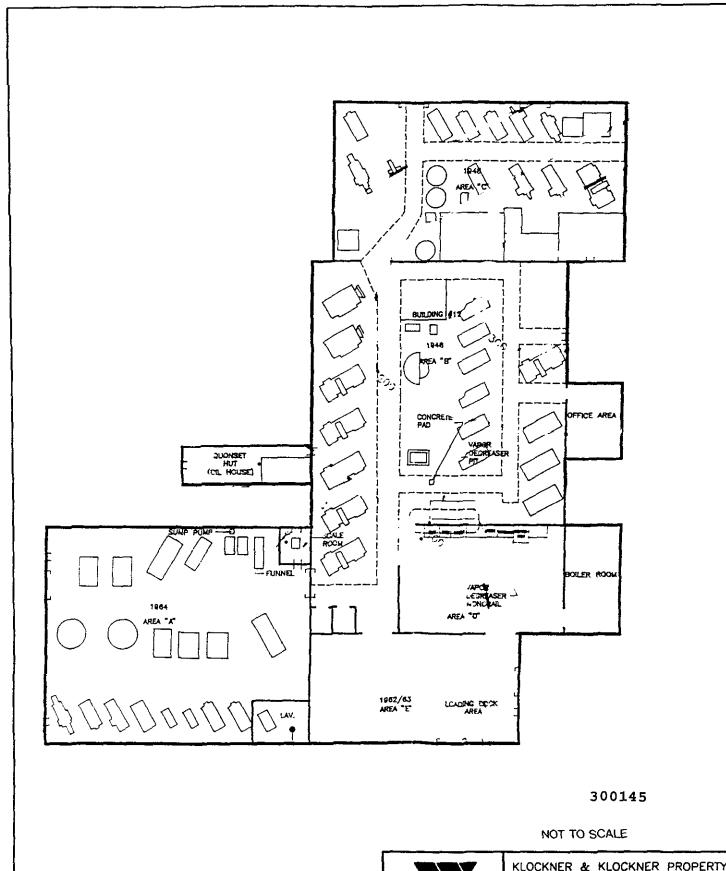






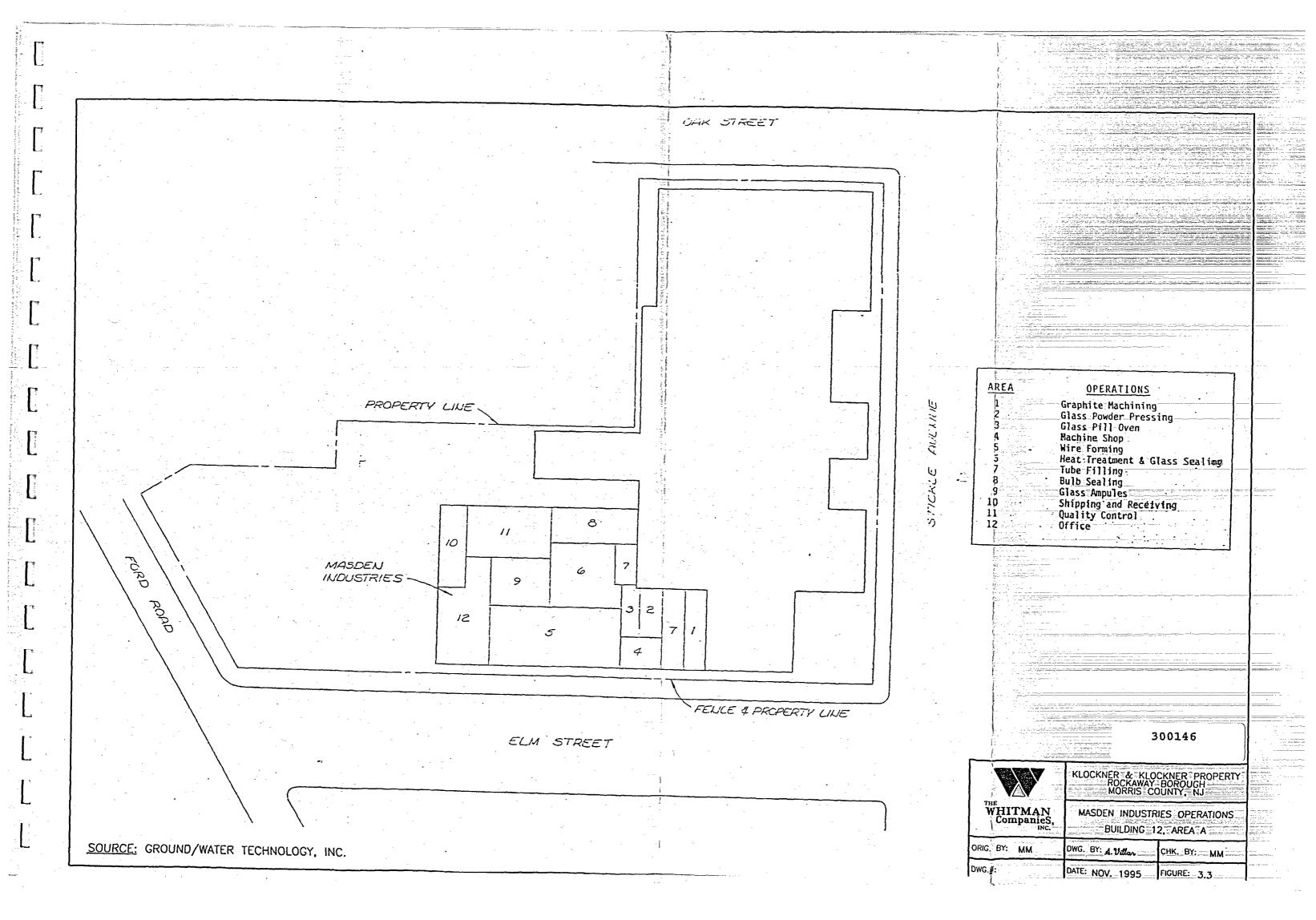


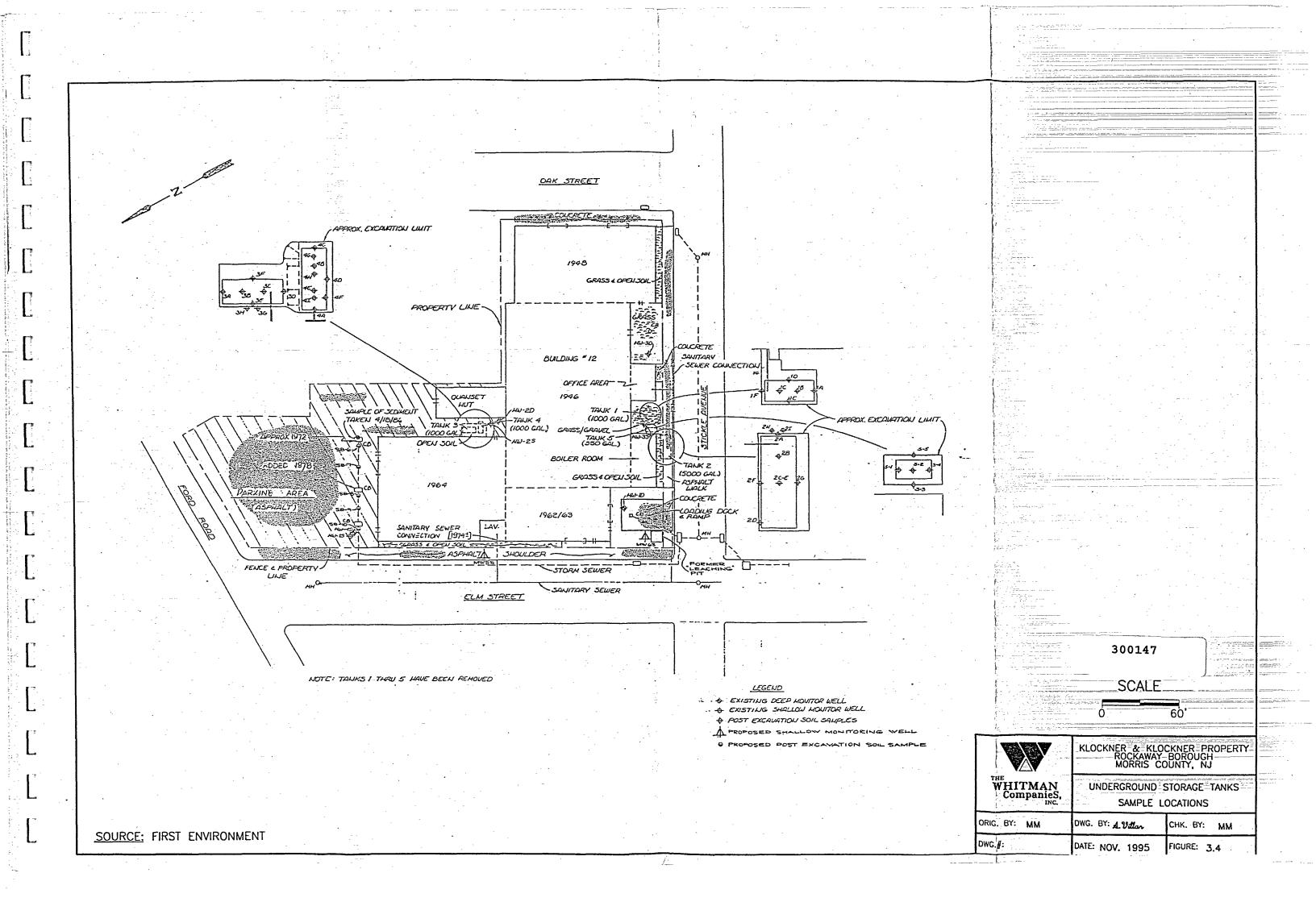


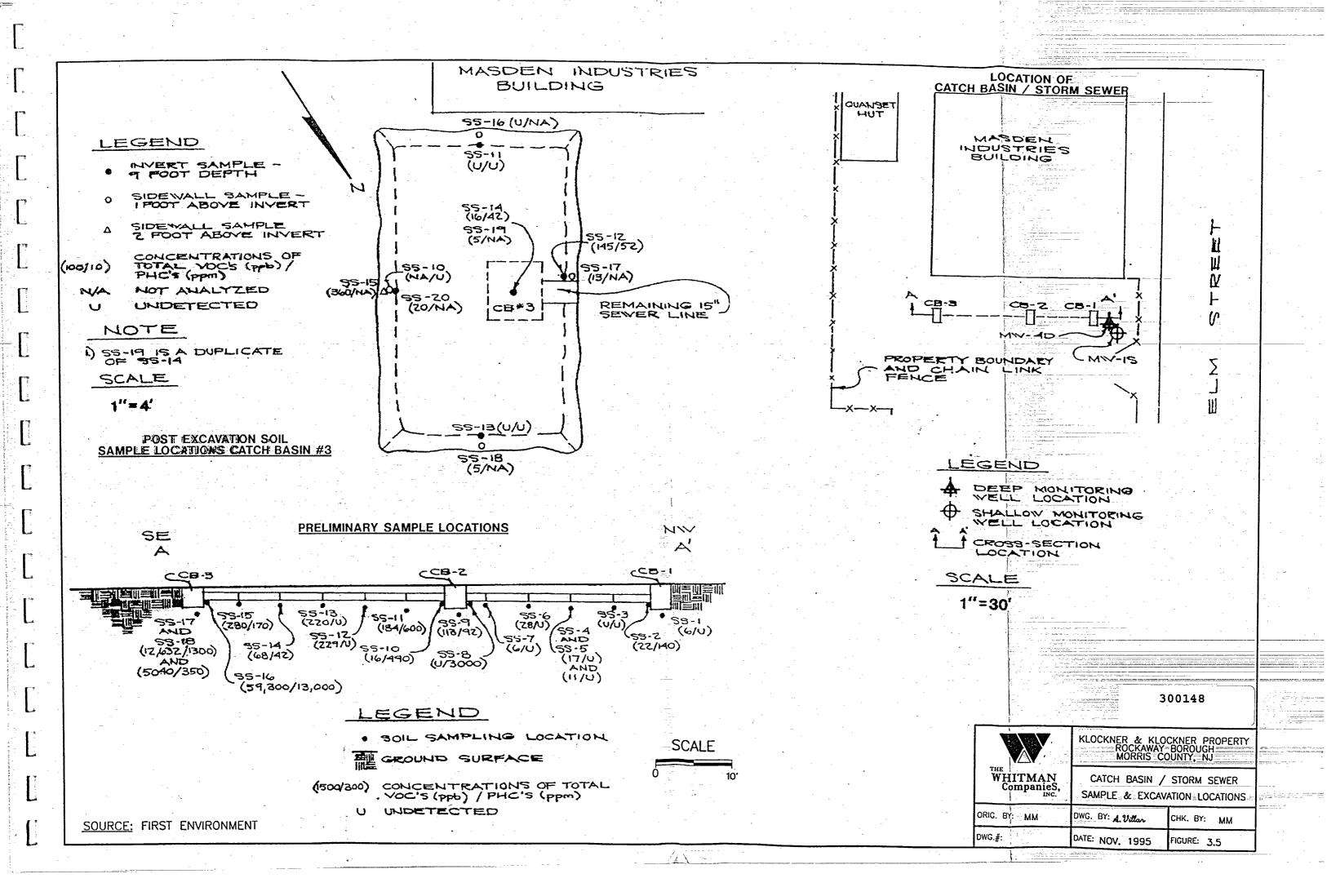


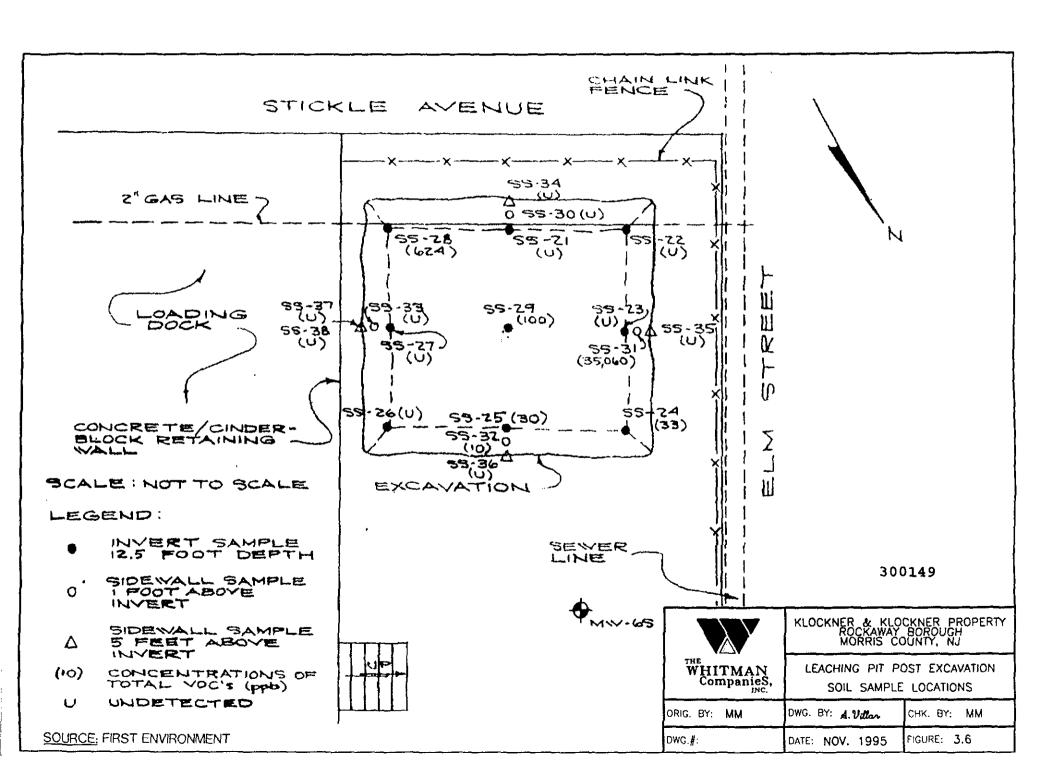
	KLOCKNER & KLOCKNER PROPERTY ROCKAWAY BOROUGH MORRIS COUNTY, NJ					
WHITMAN CompanieS, INC.	THIOKOL'S OPERATIONS BUILDING 12					
ORIG. BY: MM	DWG. BY: A. Villan	CHK. BY: MM				
DWG.#:	DATE: NOV. 1995	FIGURE: 3.2				

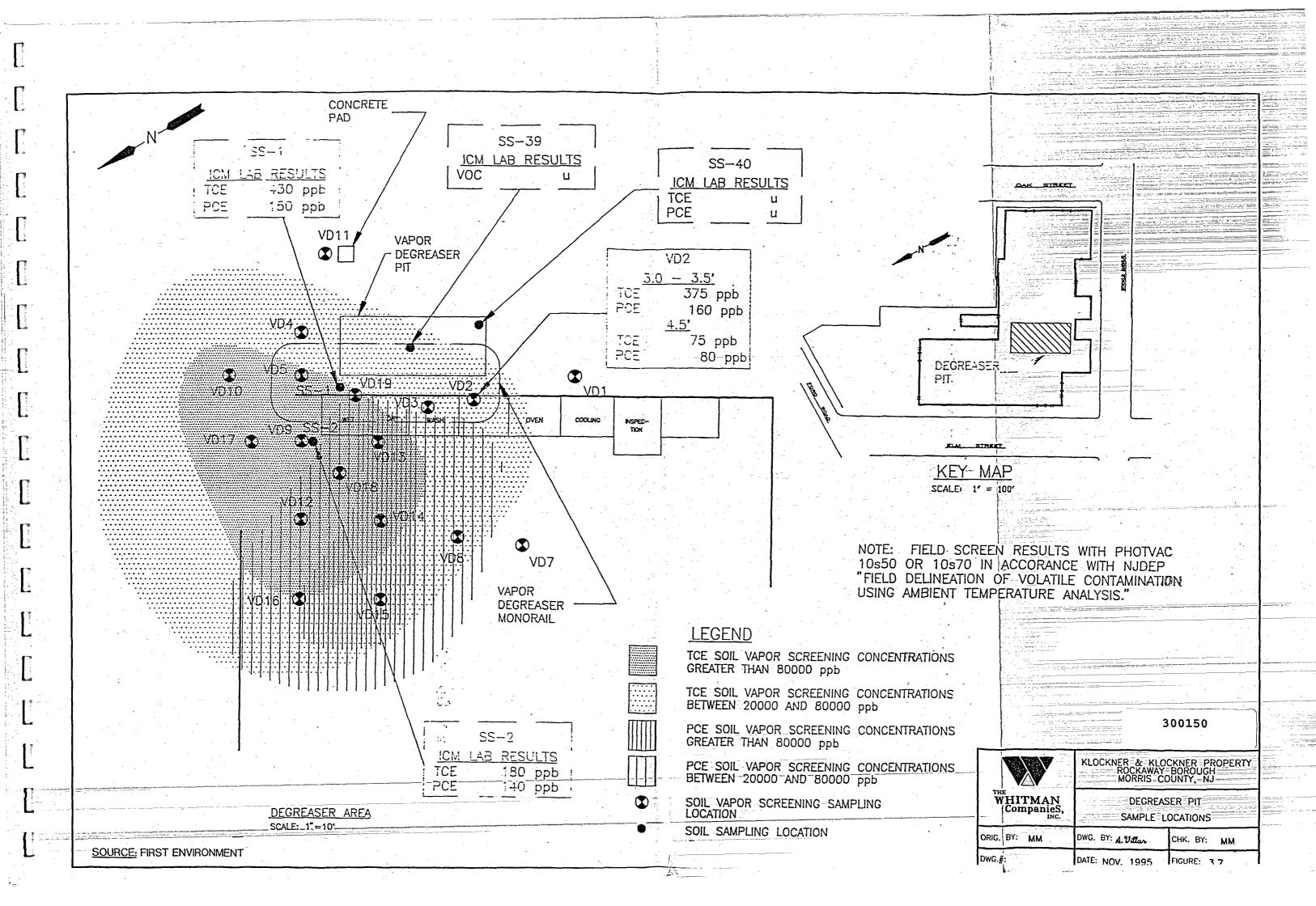
SOURCE: FIRST ENVIRONMENT











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Jeneral Windows

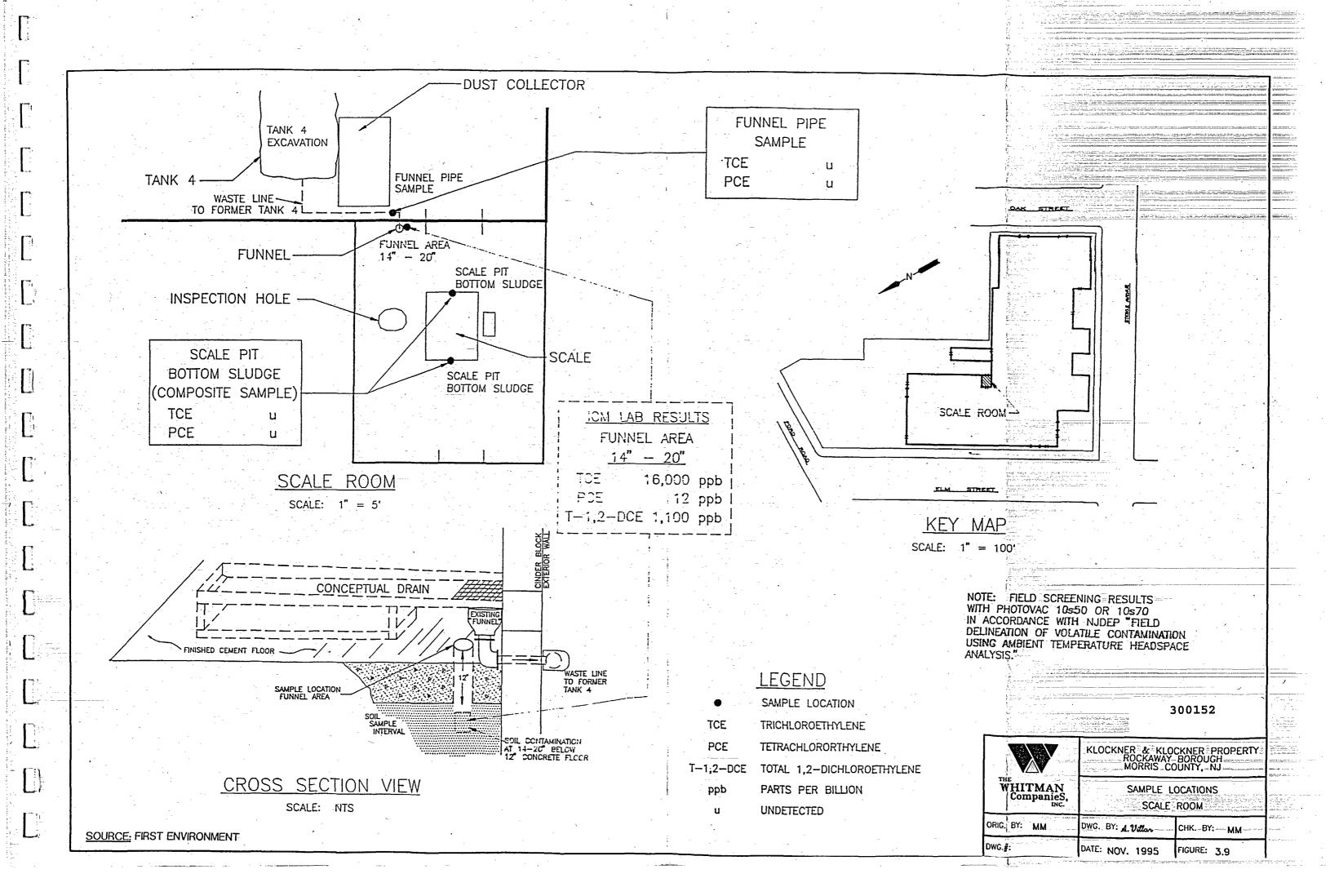
#### ASPRACE WITH ALUMINING SEAVINGS.

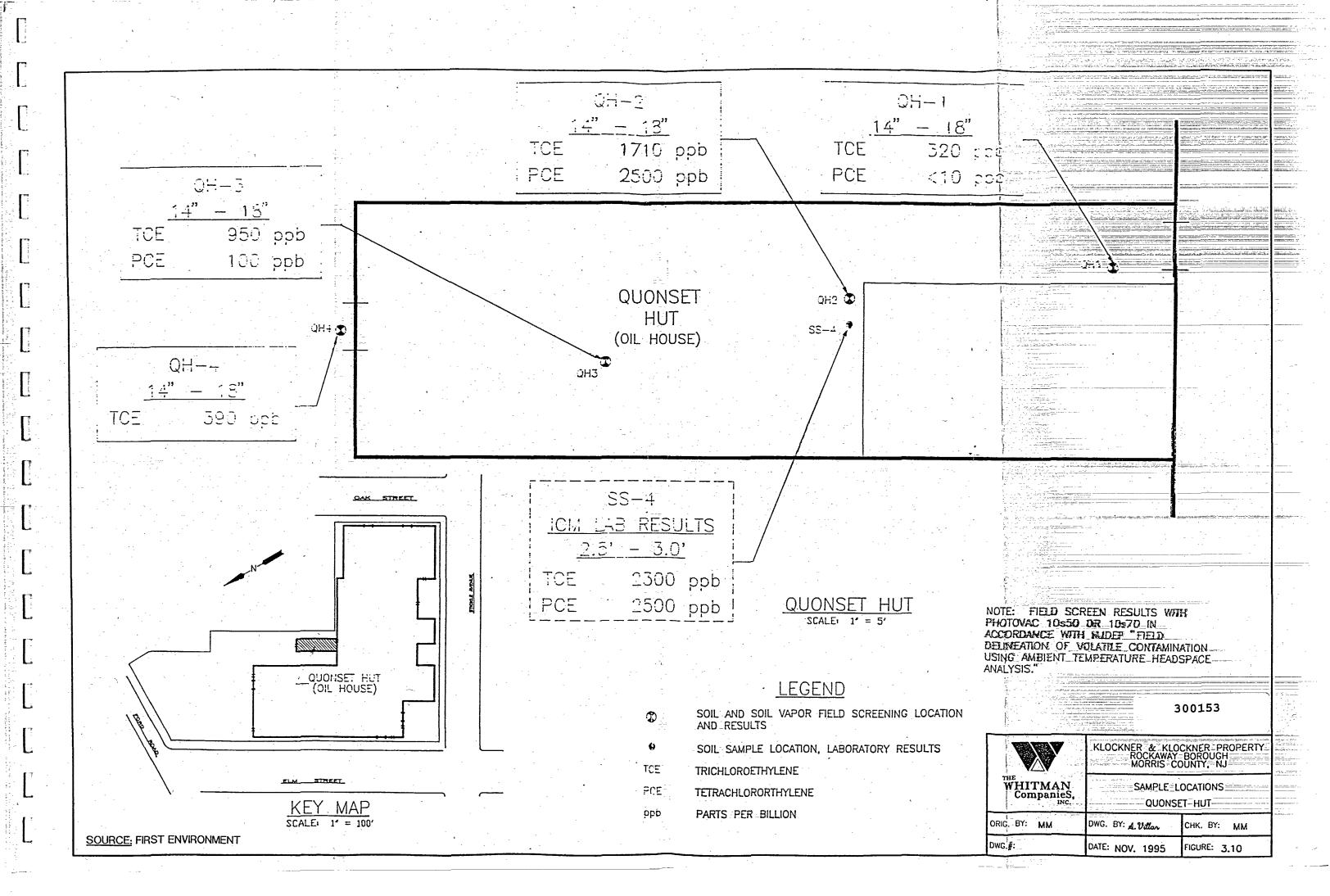
MORE: FIELD SCREEN SESSION WITH PROJECTED 10850 OR 10870 IN A DOCKDAN TO WITH THE PERSON OF THE CONTRACTOR SESSION AND A DOCKDAN OF THE PERSON OF THE PERSON

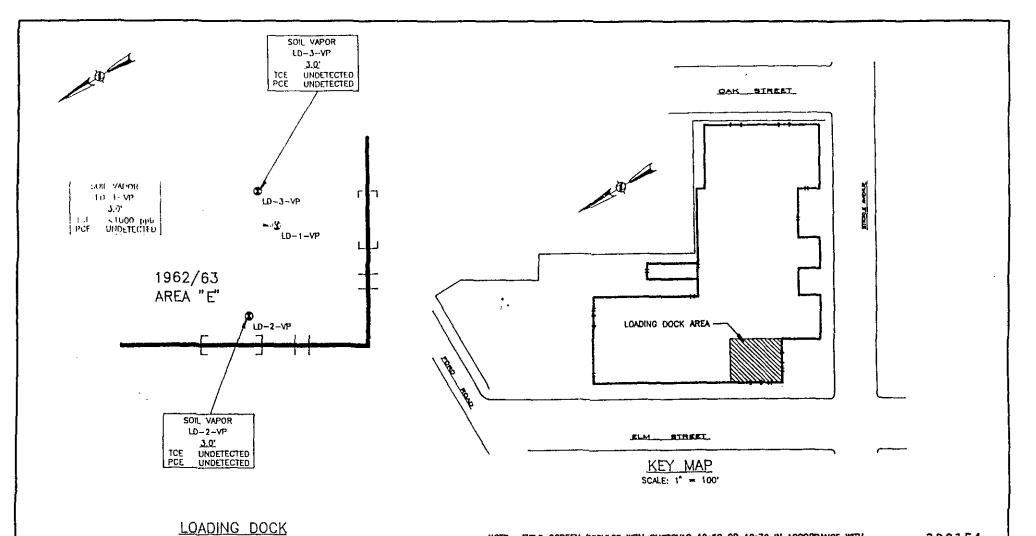
#### 300151

HOUSELS FIRST ENVIRONMENT

	KLOCKNER & KLOCKNER PROPERTY ROCKAWAY BOROUGH WORR'S COUNTY, NJ ALLEYWAY SAMPLE LOCATIONS	
WHITMAN Companies,		
and the state of t	A - A State	COK EY. KIM
	12.53% 1.532 	,







**LEGEND** 

SOIL AND SOIL VAPOR FIELD SCREENING LOCATION AND RESULTS

SCALE: 1" = 20"

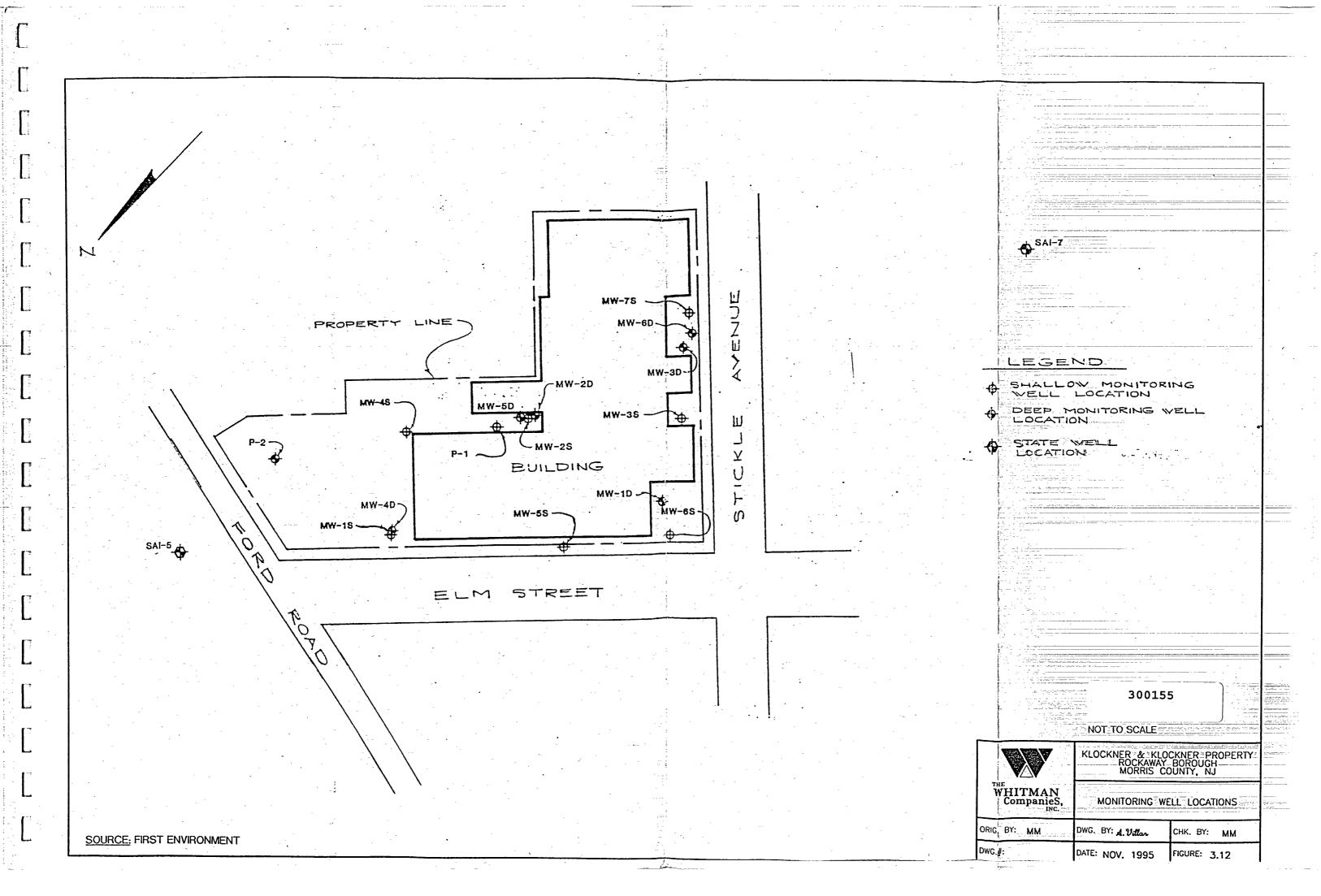
TCE TRICHLOROETHYLENE

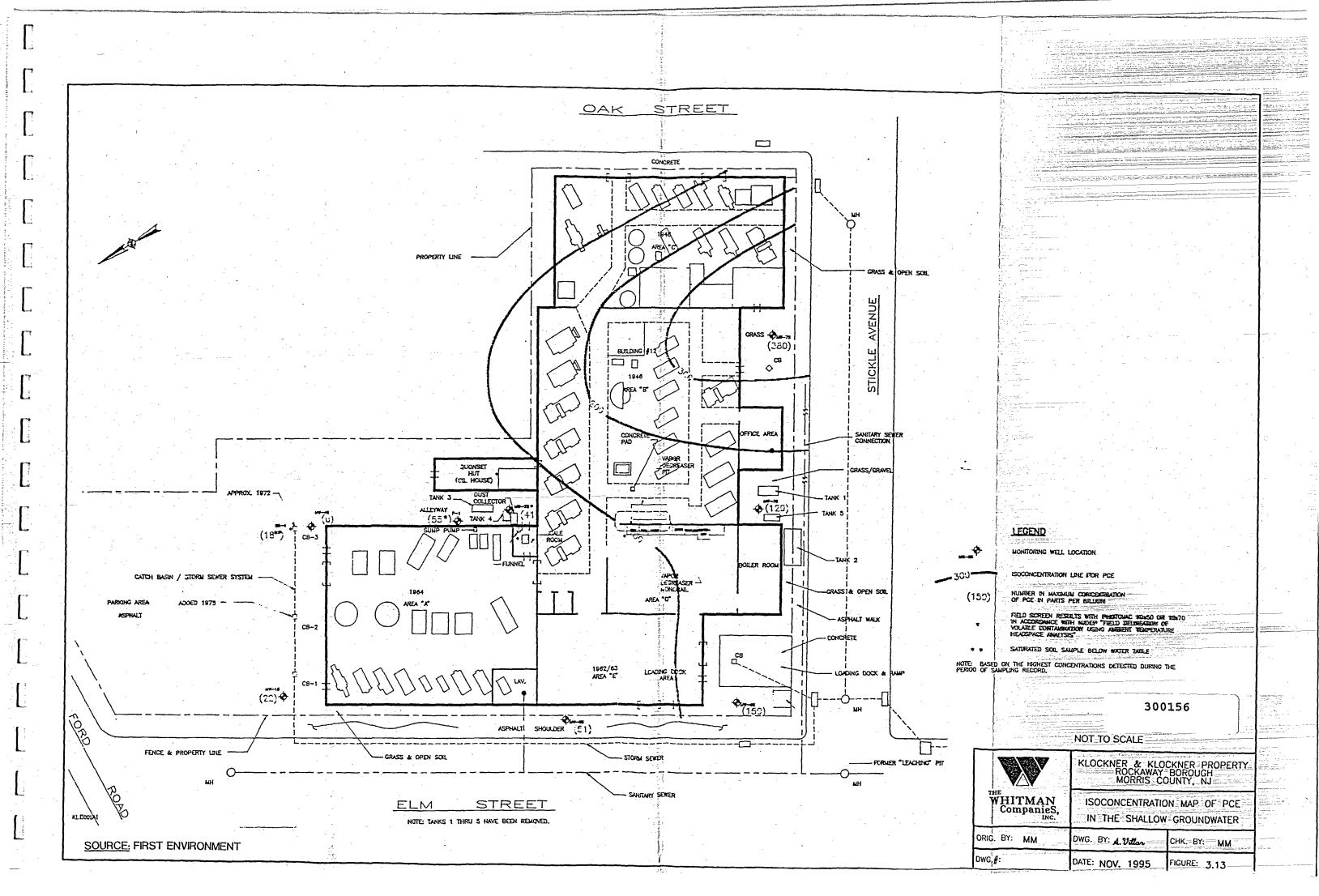
PCE TETRACHLOROETHLENE

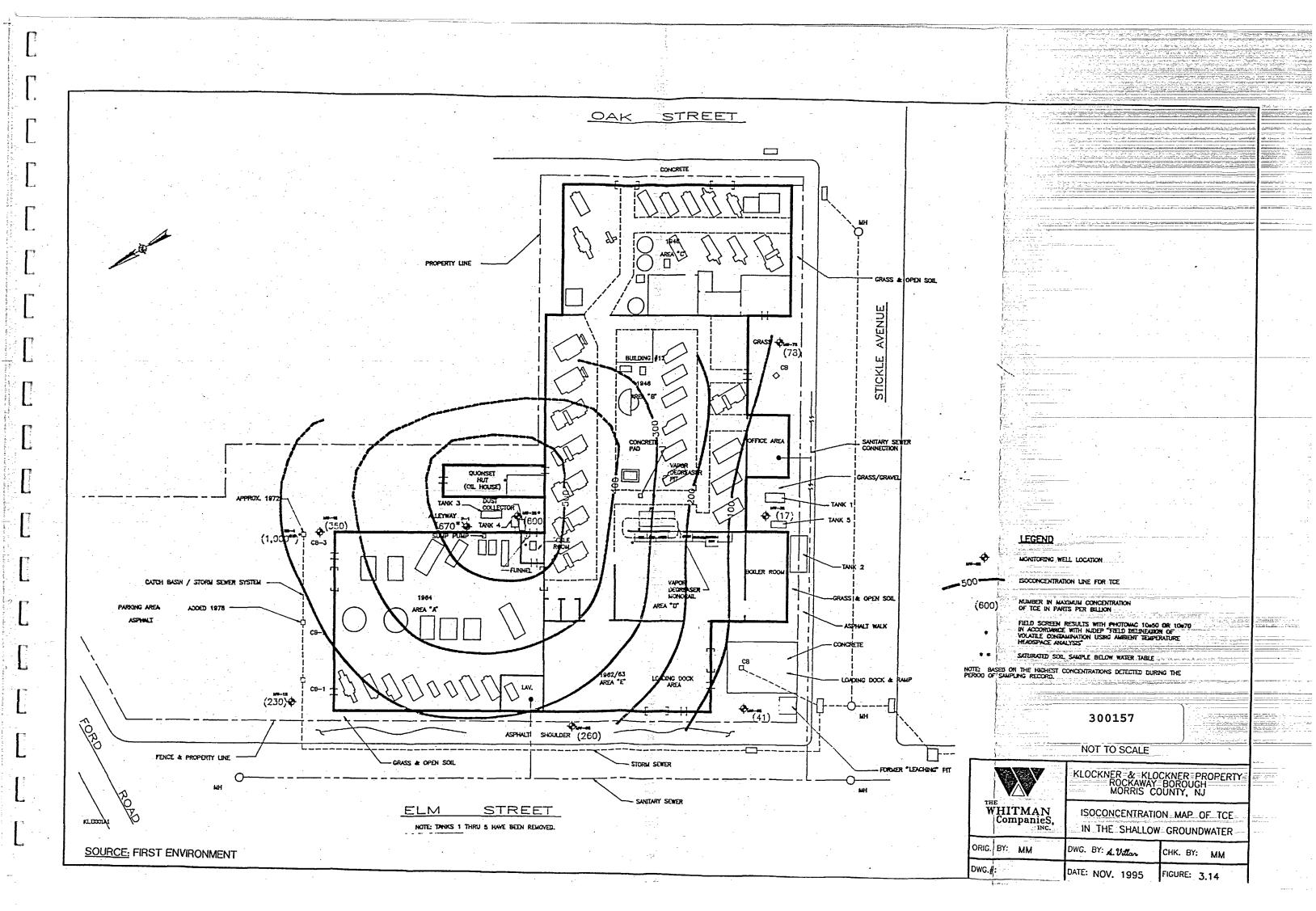
ppb PARTS PER BILLION

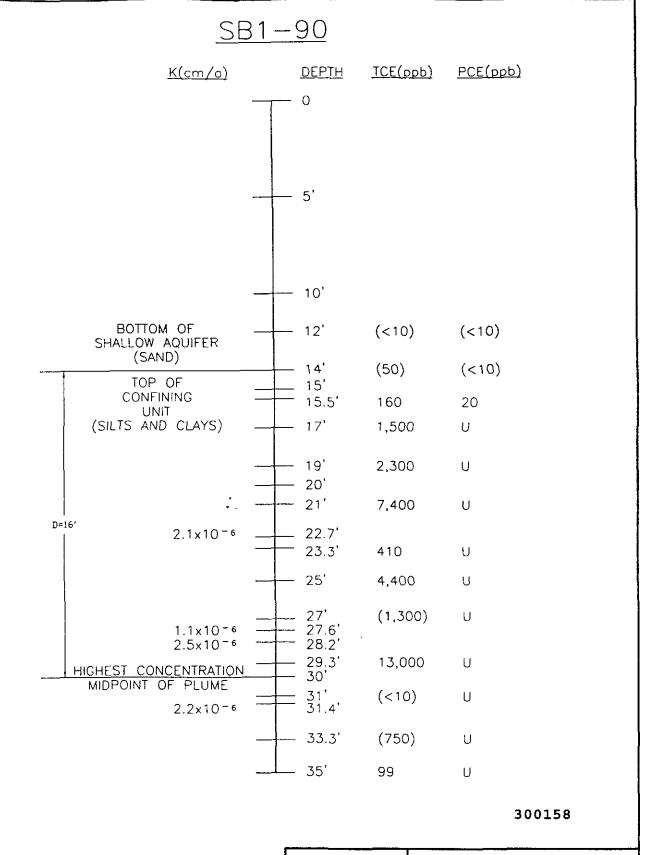
NOTE: FIELD SCREEN RESULTS WITH PHOTOVAC 10±50 OR 10±70 IN ACCORDANCE WITH NUDEP "FIELD DELINEATION OF VOLATILE CONTAMINATION USING AMBIENT TEMPERATIURE HEADSPACE AVALYSIS."

	KLOCKNER & KLOCKNER PROPERTY ROCKAWAY BOROUGH MORRIS COUNTY, NJ		
WHITMAN Companies,	SAMPLE LOCATIONS LOADING DOCK		
ORIG. BY: MM	DWG. BY: A. Villar	CHK. BY: MM	
DWG.#:	DATE: NOV. 1995	FIGURE: 3.11	









#### **LEGEND**

- PERMEABILITY

TCE TRICHLOROETHYLENE

PCE - TETRACHLOROETHYLENE

WHITMAN CompanieS, INC.

KLOCKNER & KLOCKNER PROPERTY ROCKAWAY BOROUGH MORRIS COUNTY, NJ

SHELBY TUBE TEST RESULTS SAMPLE LOCATION SB1-90

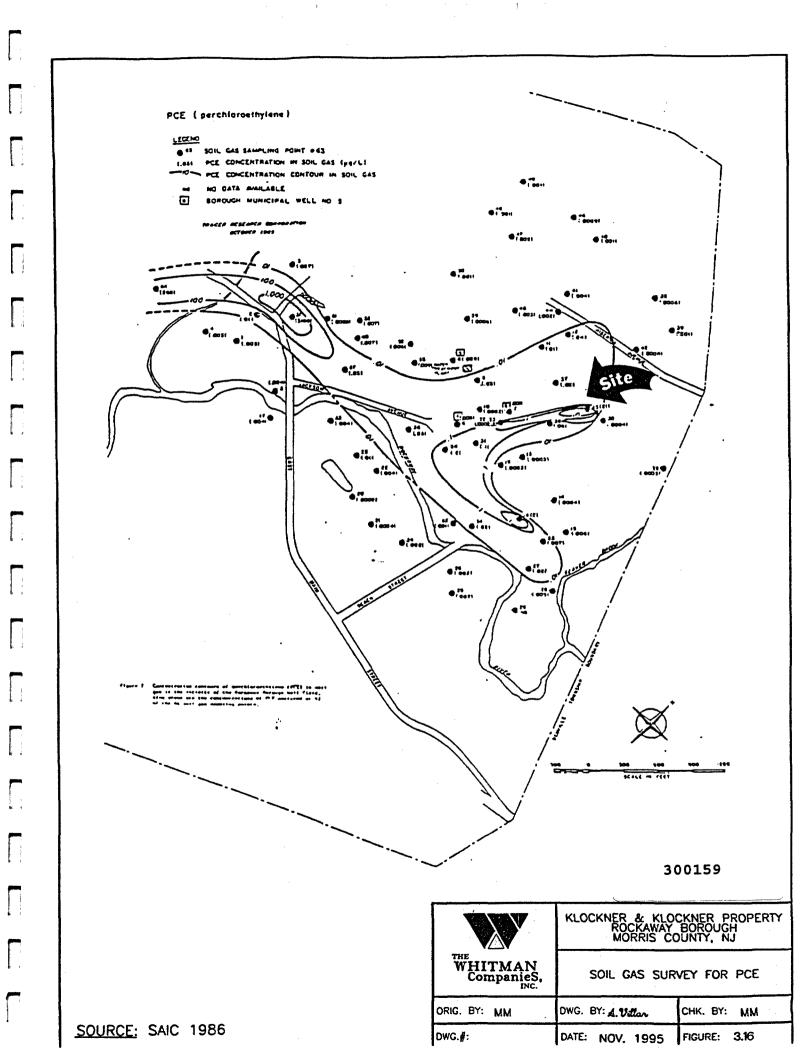
ORIG. BY: MM

DWG. BY: A. Villar

CHK. BY: MM

DWG.#: 95030201

DATE: NOV. 1995 FIGURE: 3.15



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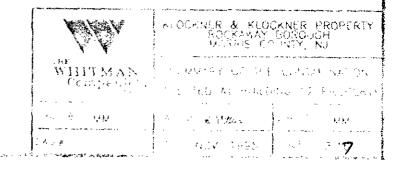
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NOTIFIED AND A THE MESTIGS WITH PHOTOLOGY OF TOSTO OR 10970 AT ALL THE THE TOTAL PROTECTION OF VOLATILE CONTAMINATION OF ALMOST THE PROTURE HEADSPACE MALTSIS."

DRMER "LEACHILG" PIT

300160

SOURCE DRST ENVIRONMENT



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& RAMP NO

0 20 10 40 (F(ET)

NOTE: JONES JORGEN RESULTS WITH PHOTOVAC 10:50 IN 4000HOANCH WITH NUDEP "FIELD DELINEATION OF MESSING AMERICAN DEMPERATURE HEADSPACE ANALYSIS."

DRMER "LEACHING" PIT

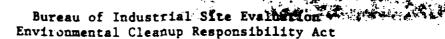
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SOURCE FIRST UNVIRONMENT

M. C.	KLOCKNER & KLOCKNER PROPERTY ROCKAWAY BOROUGH WORRIS COUNTY, NJ		
THE WHITMAN Companies,	SUMMARY OF HOE DETECTED AT BUILD		
1	W E A Vallar	CHE BY MW	
	NUL 1995	16.4. 3.1 <b>8</b>	

## ATTACHMENT 1

NJDEP - ECRA INSPECTION REPORT FOR MASDEN INDUSTRIES



#### Report of Inspection

ECRA Case #85551

Date of Inspection 12/23/85

Inspection Category: Preliminary
Inspector: Joseph Douglass

Industrial Establishment: Masden Industries - Multiform Metals Division

Location: Stickle Avenue and Elm Street Rockaway Boro, Morris County

Individuals Involved: Joseph A. Turcotte - Ground/Water Technology, Inc.

Donald W. Richardson - Ground/Water Technology, Inc.

Carl Fabend - Owner

#### NARRATIVE DESCRIPTION

Arrived at referenced industrial establishment at 2:05 pm. Weather was overcast, 45°F. Met with above named individuals. Inspected portion of building and grounds associated with operations of Masden Industries. Discussed findings, departed facility at 2:55 pm.

#### DEFICIENCIES NOTED

- 1. Empty methylene chloride drums (7) are stored upside down next to storm drain catch basin. Shavings from Masden process are also visable next to catch basin. Catch basin is at low point of pavement and receives all runoff. Water in catch basin had visable oily sheen. Some roof drains also lead to catch basin via a large pvc pipe.
- 2. A tin storage shed located on pavement behind Masden contains numerous hazardous substances and wastes, including sulfuric acid, nitric acid, ammonium hydroxide, copper cyanide, and many containers which appear to be wastes and are not labelled. The door to the shed is left open, the floor is missing some boards. This shed represents a very hazardous situation.
- A shavings/dust collection system is operated by Masden. Mr. Fabend said he believed this unit was permitted. The Initial ECRA Notice makes no mention of permitted facilities.
- 4. An elbow pipe was observed next to the shavings/dust collection system. Its purpose could not be identified during the inspection.
- 5. Process cooling water drains to sump from which it is pumped, discharge point uncertain.
- 6. A 12" by 18" by 4' deep hole was cut through concrete floor behind boiler to tank #3. Lines to and from tank 3 are in this hole. The sandy sides of the hole appear to be oily.
- 7. The vacuum pump/air compressor room is very oily.

- 8. A 5 gallon glass bottle which was encrusted with white residues and contained a yellow liquid was observed near the building entrance. According to Mr. Fabend, this bottle contained water.
- 9. Two apparent fill pipes were observed at the location of underground storage tank #2.
- 10. Soil around fill pipes to underground storage tanks 1 and 3 is stained from fuel spillage.
- 11. A 55 gallon drum labelled methylene chloride and mostly full was observed on soil inside the gate by underground storage tanks 1 and 2. Also noted were two full 5 gallon plastic pails.

#### ACTIONS REQUIRED ON THE PART OF THE APPLICANT

- 1. Store all drums in environmentally acceptable manner. Remove shavings and sediment from in and around catch basin, document manner of legal disposal to NJDEP. Provide diagram illustrating layout of storm sewer. Identify discharge point of storm sewer.
- 2. Identify and dispose of all substances and wastes in tin shed in a legal manner, document same to NJDEP.
- 3. Obtain a valid permit to operate the shavings/dust collection system. Inquire about permitting requirements for hood next to 55 gallon TCE drum. Contact William Hart at (609) 292-6716 for further information in this regard. Document completion of these tasks to BISE.
- 4. Identify purpose of pipe.
- 5. Identify discharge point of cooling water.
- 6. Provide details of why hole was dug through concrete floor.
- 7. Cleanup oily residues in vacuum pump/air compressor room, document method of legal disposal to NJDEP. Improve housekeeping to prevent reoccurrence of condition cited.
- 8. Identify contents of this bottle, source of contents, and method of disposal. Document method of legal disposal to NJDEP.
- 9. Determine whether two separate tanks exist at this location. If so, rest tank which has not yet been tested using methods acceptable to NJDEP.
- 10. Remove all visably contaminated soils, document that remaining soils contain less than 100 ppm petroleum hydrocarbons through post-excavation sampling.
- 11. Identify source and contents of drum and pails. Document method of legal disposal to NJDEP.

#### ACTIONS REQUIRED ON THE PART OF BISE

1. Refer RCRA violations to Bureau of Field Operations for follow up (referred December 24, 1985, incident report #85-12-24-02N).

2. ECRA Fee overpaid; determine appropriate fee associated with testing of ugsts, advise agent to petition for refund.

Inspector/Case Manager Signature

Approved:

, Supervisor

Bureau of Industrial Site Evaluation

## **ATTACHMENT 2**

JANUARY 12, 1990 NJDEP - ECRA COMMENT LETTER

18



CN 028 Trenton, N.J. 08625-0028 (609)633-7141

## State of New Jersey department of environmental protection

DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam Deputy Director Hazardous Waste Operations

John J. Trela, Ph.D., Director

Lance R. Miller Deputy Director Responsible Party Remedial Action

JAN 12 1990

Certified Mail
Return Receipt Requested
Mr. James Youngelson
Youngelson & Murray Park
Jockey Hollow Professional Park
5 Cold Hill Road South (Unit 17E)
P.O. Box 152
Mendham, NJ 07945-0152

Dear Mr. Youngelson:

Re: Madsen Industries - Multiform Metal and Service Strickle Avenue and Elm Street Rockaway Borough, Morris County ECRA Case #85551, #85552

This letter is to apprise you that the Department is not in receipt of your ground water Sampling Results pursuant to the NJDEP letters dated June 8 and July 3, 1989 and the subsequent extension approval letter dated October 11, 1989 and also to provide a response to the soil Sampling Plan Addendum dated August, 1989.

In addition, this is to confirm the telephone conversation on December 12, 1989 between you and Stephen E. Maybury of the NJDEP regarding the November 13, 1989 NJDEP letter requesting an ECRA withdrawal affidavit. In that conversation Mr. Maybury informed you that Masden Industries may elect to stay in the ECRA process as an "Early Filer"; however, Masden Industries must comply with the Act.

Masden Industries shall submit the required Ground Water Sampling Results pursuant to the above mentioned NJDEP letters and to N.J.A.C. 7:26B-4.3 within 15 days of the receipt of this letter. Masden Industries is in violation of the Environmental Cleanup Responsibility Act (ECRA) and subject to penalties of up to \$25,000 per day. The assessment of any penalties by the Department will not relieve Masden Industries of its responsibilities under the regulations of ECRA. Please also be advised that a Cleanup Plan for groundwater shall include a proposal for both the shallow and deep aquifers.

This office views this delay as a violation of the Act and will initiate appropriate enforcement action if we are not in receipt of your Sampling Results within the specified timeframe.

The Department has completed its review of the August, 1989 Sampling Plan Addendum for soils and has concluded that this soils Sampling Plan is approvable as conditioned below. Masden Industries shall submit the results of this Sampling Plan Addendum pursuant to N.J.A.C. 7:26B-4.3 within 90 days from the receipt of this approval.

- Masden Industries shall conduct the proposed sampling at the indoor degreaser pit.
- 2. Masden Industries shall conduct verification soil sampling using USEPA Method 624 for volatile organics at the former tank #5 locations. Two samples shall be collected from the undisturbed soils beneath the fill material at locations along the former tanks center line. Please be advised that the former analytical method (USEPA 503.1) used for volatile organics is unacceptable for verification of soils cleanup in this area.
- Masden Industries shall propose cleanup of petroleum hydrocarbon contaminated soils at Catch Basin CB-2 and the adjacent pipe joint with repairs to the system to prevent future discharge.
- 4. Masden Industries shall report all contaminant concentrations in the same units. It is recommended that all soils results be reported in part per million (PPM) concentrations.
- 5. Masden Industries shall insure that the following deficiencies regarding laboratory deliverables are corrected in all future submissions.
  - a. All peaks on chromatograms shall be labeled
  - b. The copy quality of all laboratory data sheets shall be sufficient to allow a review of the sheets.
  - c. All changes to laboratory sheets, including typed changes, shall be initialed.
- 6. Masden Industries shall submit all future documents (ie. Cleanup Plan) as stand alone documents to insure a complete review of all areas of concerns and proposals. All areas of both current and past environmental concern on-site shall be identified and historical results, maps, and recommendations and conclusions shall be included. Following are additional ECRA requirements for Data, Presentations and Proposals.
  - A. Data Requirements

The following information shall be included with the results of sampling.

- 1. Logs for all soil borings and wells.
- Soil profile logs for all excavations.

- Monitoring Well Certification Forms: 3. Form A (As-Built Certification) and Form B (Location Certification) shall be completed for each monitoring well installed. Form A shall submitted with the results of sampling. additional wells are sometimes required to complete a hydrogeologic investigation, Form B may be submitted after completion of the installation of all required ground water monitoring wells, unless required prior to that time by the Department. As built diagrams of all wells shall be included with Form A.
- 4. A scaled site map of all well and soil boring locations.
- 5. A minimum of two ground water contour maps, including depth to ground water and reference point elevation, with depth to water readings taken at least 30 days apart. If applicable, depth to water readings taken prior to purging shall be used for contouring purposes. Any corrections made to the static water level due to the presence of free product must be reported, along with the thickness of the product layer.
- 6. Ground water samples shall be collected a minimum of two weeks following development of the wells.
- At a minimum, the following purge information shall be provided along with the analytical results: date and time of purge, depth to water before purging, purge method, estimated volume of purged water, depth to water after purging, date and time of sampling, depth to water before sampling, and sampling method.
- Provide in a tabular format the results of sampling. the sample number, location, interval and depth of sample, sample matrix, and the analytical methods used. The enclosed summary format sheets are provided as guidance for summarizing data.
- A site map which lists the concentrations of all significant contamination found (above ECRA action levels) at all sampling locations. The labelling of data should be keyed to facilitate interpretation, especially at locations where more than one type of contaminant is found. The use of contaminant isopleth maps is also encouraged.

#### В. Data/Results Presentation

Recause of case management workloads and volumes of data to be reviewed and processed, the above noted formatting requirements are essential to insure complete and timely review of the submittal.

- Tier II deliverables should be identified and separated from the submittals, discussion, conclusions and data summary sheets. The enclosed Laboratory Deliverables checklist should be completed and returned with the Tier II deliverables.
- 3. All submittals of text/data shall be forwarded in triplicate and shall be properly paginated, bear a table of contents and be bound (1 copy may be unbound for filing purposes).
- 4. Failure to organize submittal information as outlined above can constitute reason to return the submittal to the consultant for correction and resubmission, thus causing further delay in case processing.
- 5. Failure to address these conditions and provide documentation where required shall constitute non-compliance with ECRA, no final approvals or case closure will occur until these issues are resolved.

#### C. The Cleanup Plan Proposal

During the course of the implementation of the sampling and the generation and evaluation of data, the consultant will be considering the development of a Cleanup Plan. To insure a complete and timely review of the submittal, the Cleanup Plan shall be a stand alone, self-supporting document. As a guide to this process, the following elements should be included in the formation of the plan.

- 1. Introduction
- 2. Table of Contents
- Summary of Environmental Concerns. Include the results of previous sampling.
- 4. The proposed remedial actions. Include the evaluation of any alternative remedial actions if appropriate.
- Cleanup levels to be achieved. Be specific with regard to media and parameters.
- 6. A Work Plan must detail the specific activities that will be used to complete the proposed cleanup objectives.
- 7. A post-remediation sampling and monitoring plan.
- 8. A specific time table for implementation of the Cleanup Plan which includes milestones in the project.
- 9. Progress reports, dependant on the duration of the cleanup.

- 10. Estimate costs for cleanup:
  - a. capital costs;
  - b. operation and maintenance costs;
  - c. monitoring system costs;
  - d. laboratory costs;
  - e. engineering, legal, and administrative costs; and
  - f. contingency costs.
- D. Please be advised that, according to N.J.A.C. 7:26B-4.3, sampling results shall be accompanied by:
  - a. a proposed Negative Declaration; or
  - b. a proposed Cleanup Plan; or
  - c. a revised Sampling Plan to further delineate the extent and degree of contamination on or from the industrial establishment.

Failure to submit the appropriate accompanying document as described above will constitute reason to return the submittal to the consultant for correction and resubmission, thus causing further delay in case processing.

E. Please be advised that the results of sampling shall be accompanied by the appropriate fee as required by N.J.A.C. 7:26B-1.10. The enclosed Fee Submittal Form is provided for guidance to determine the fees required; this form should be completed and returned with the submittal package.

A Cleanup Plan shall be accompanied by a fee based on the cost of cleanup.

Submission of analytical data shall be assessed a \$1,000.00 review fee.

- 7. Masden Industries shall accomplish this investigation and any further analytical investigations by the methods outlined in this Sampling Plan. If any change in methods outlined in this sampling plan is necessary or if any delays are encountered, Masdan Industries shall inform BEECRA in writing prior to implementation.
- 8. Masden Industries shall submit summarized analytical results in rabular form. Masden Industries shall also submit with the analytical data all documents associated with the sampling and testing, including but not limited to lab sheets, chain of custody, results of blank analyses, lab chronicles, summary of analytical instrument tuning, and analytical methods used.
- 9. Masden Industries shall notify NJDEP in writing at least five business days prior to implementation of sampling.

10. If contamination is determined to exist above a level found acceptable by NJDEP, Masden Industries shall prepare and submit a Cleanup Plan pursuant address developed to N.J.A.C. 7:268-5.3 to contamination. If the data from implementation of the approved Sampling Plan indicates the presence of contamination, but is not sufficient to define the full horizontal and vertical extent, then such areal definition shall be proposed as a Sampling Plan Addendum in a form which meets the criteria of N.J.A.C. 7:26B-3.2(c)11. horizontal and vertical extent of contamination shall be determined before an approvable Cleanup Plan can be developed.

Any questions regarding this matter should be directed to the Case Manager. Steve Maybury at 609-633-7141.

Sincerely,

Louis Cubequel for Kenneth T. Hart, Chief

Bureau of Environmental Evaluation and Cleanup Responsibility Assessment

SEM/sr Enclosure

cc: Jennifer Eck, BGWDC Judith Morrow, BEERA

### **ATTACHMENT 3**

LISTS OF HAZARDOUS SUBSTANCES HISTORICALLY PRESENT AT MASDEN INDUSTRIES

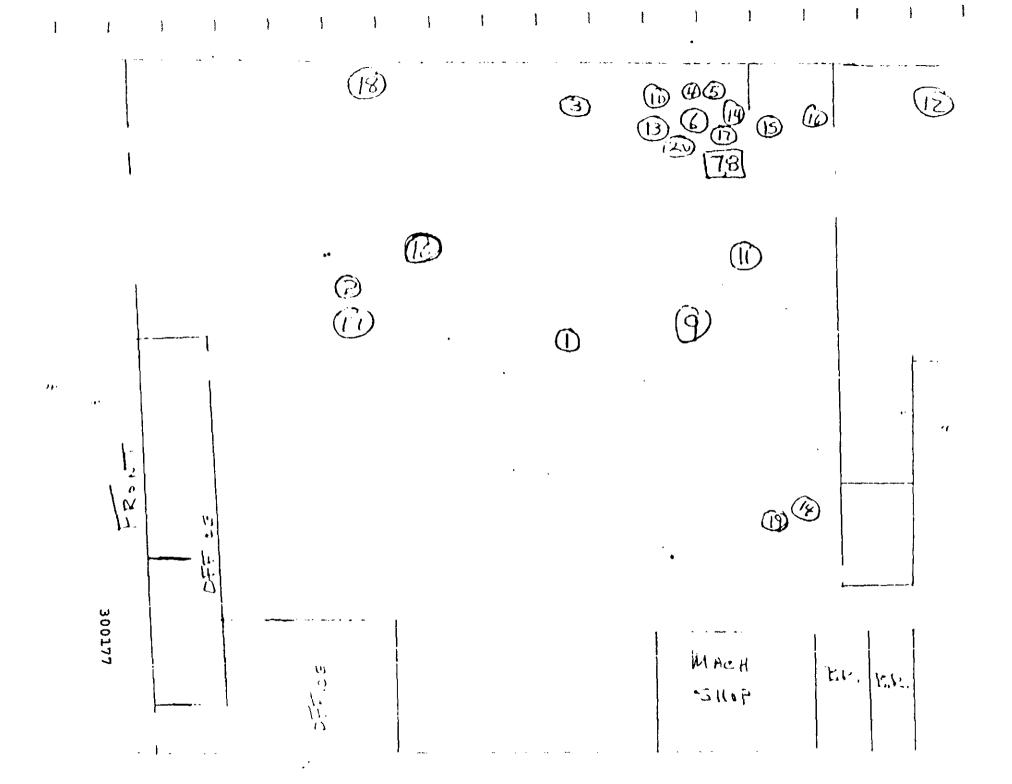
# Borough of Rockaway EUREAU OF FIRE PREVENTION

MUNICIPAL BUILDING . 1 EAST MAIN STREET ..



7	HAZARDOUS SUBSTANCES QUESTIONNAIRE
	COMPANY NAME: MASDEN INDUSTRIES, INC.
	DIVISION OR PLANT NAME:
_	MAILING ADDRESS: P.O. BOX 695, Rockaway, NJ ZIP 07866 STATE NJ
	PLANT LOCATION (If not as above): 20 ELM STREET, ROCKAWAY, NJ 07866
****	NATURE OF BUSINESS. Manufacturer of Glass-to-Metal Seals
	TELEPHONE NUMBER:(201) 625-3500
	INSURANCE COVERAGE FOR FIRE LOSS BY (List Insurance company name, address and Branch offi
	Agent - CPI, Inc, 2 Ridgedale Ave, Cedar Knolls, NJ
	·
	- -
	DOES THIS FACILITY MANUFACTURE, PROCESS, FORM, PREPACKAGE, RELEASE, USE, DISPOSE, OR STOR ANY MAZARDOUS SUBSTANCES. Yes 🔀 No 🔲
,	IF "NO", PROCEED TO PAGE NUMBER 4 AND COMPLETE THE "PERSONS TO CONTACT" AND "CERTIFICATI"
	IF "YES", LIST ALL HAZARDOUS SUBSTANCES AT YOUR FACILITY, WITH MAXIMUM QUANTITY OF EACH. "WOULD BE PRESENT AT ANY ONE GIVEN TIME DURING THE YEAR. (Use additional sheets as necess
****	SUBSTANCES
	See Attached
****	

LOCATION	NAME	OTY
LOCALION	METHANOL	50 GAL
2	FLUOBORIC ACID	50 GAL
3	TRICHLORETHYLENE	30 GAL
		20 GAL
4	161 DESCALER	
5	935 KOVAR	5 GAL
6	HYDROFLOURIC ACID	3.5GAL
7	ALMCO 2220 HD	10 GAL
8	15-L	10 GAL
9	COOKS DRAW 5025 OIL	45 GAL
, 10	AMMONIUM BIFLOURIDE	20 LBS
11	SODIUM METABORATE	150 LBS
12	METHYLENE CHLORIDE	1800 LB\$
13	RODINE 50	10 G <u>A</u> L
14	OXYGEN .	2
15	NITROGEN	2
16	HYDROGEN	3
17	PROPANE	3
18	HELIUM	1
19	ACETELYNE	1
20	FERRIC CHLORIDE	5 GAL



mental to the contract	-		
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— (Municipality)			
PERMIT NUMBER:			
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THE OF SELECTED SUBSTANCES DISPOSE			CISFOS!
THE OF SELECTED SUBSTANCES DISPOSE			CISFOS!
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TOURT HRISE, AND ODE	, willer, borde or water or opries	
Non-contact co	oling - warm water piped to d	rain which empties into sewer.
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	CONTACT PERSONS	
Lechnical Assistance:	NAME: David Babcock	TITLE: Chief Engineer
	TELEPHONE (Day): 625-3500	(Night): 756-0721
	NAME: David T. Landsittel	TITLE: Executive Vice Preside
<del>-</del>	TELEPHONE (Day): _ 625-3500	(Night): 464-5399
Tesponse Notification	NAME: E. C. Fabend	TITLE: President
٠	TELEPHONE (Day): 625-3500	(Right): 746-5336
	ion will be kept on file in see of public safety.	the Bureau of Fire Prevention
, pasence		Thomas Trapasso Fire Marshall
:: Sgt. G. Anders Fire Chief	on Rockaway Police Rockaway Fire Dept.	· ·

\* Mr adsitted said these are to be shipped to Hait + Dynaglass is some ownership as Masda lastes found in shed X Substances on Masden Ind. fire dept report 55 gal with drumpump-empty 1 - 55 gal multi surpose year oil - material in it. 1- 55 gal unknown substance in it 1- 5 gal pail Acetic Acid 1 - 20 gal fiber drum - Copper Ganide 2 - 90 16. Carborys - Ammonium Hydroxide 1 - 20 gal fiber drum - Rodine 50 5 - 5 pint containers 1 thedrockloric Acid 쑾 1 - 5 pint container & Sulfuric Acid cardboard boxes unknown contents 1 - ~20 gal keg like container - oxidizer 20 gal - black plastic drum made out to Dynaglass Inc 1- 20 gal-white plastic container Fluoboric acid 5 gal plastic bottle - 1/2 full red liquid 1- 55 gal fiber drum with 35 white powder and a 5 gal empty clear plastic bottle sitting inside on powder 1- 55 gal miscellaneous material -.. 1- 20 gal fiber drum - paper + lab ware debus 1-20 gal - rusted drum, label not readable 2-5 gal pails stacked one ontop other; "Oxidezer" on top, white chystal formed material protruding from Adrums, bottom drum rusted fro label visible 1- white styrofoam pack - netric acid

April 9, 1986 Page 1

Ground/Water Technology, Inc. 100 Stickle Ave Rockaway, NJ 07866

1 5gal plastic botte 1/2 full

red liquid

Attention: Gary Cluen

Re: Your Letter of 4/8/86

Subject: Status of DEP inventory of material in shed

Dear Mr. Cluen:

The following is an item by item description of the handling of all items inventory and attached bill of lading #5529 of chemicals shipped to Haiti on 1/24/86.

Item Description per DEP		<u>Status</u>
1 55gal with drum pump - empty	none	drum to Elec
1 55gal multi-purpose gear oil		inside building
1 55gal unknown substance	Cooks Draw Oil	inside buildinç
1 5gal pail Acetic Acid		shipped to Haiti
1 20gal Fiber drum Copper Cyanide		inside building
2 90 # Ammonium Hydroxide		consolidated into 1
, and the state of		carboy inside building
		, ,
1 20 gal Fiber drum Rodine 50		inside buildinç
5 5pint containers HCL		Haiti
1 Spint containers H2SO4		inside buildımç
3 cardboard boxes unknown contents	emptied	Reagents stored
	<del>-</del>	hemical storage area
1 20gal Keg-like container	empty Nitric Ac	id Container
1 20gal black plastic drum	contained Fluor	boric acid
made out to Dynaglass	consolidated w/	following drum
1 20gal white plastic container Fluorboric acid	see above	inside building

300182

with red dye

Methylene chloride used in producti:

of candles

#### April 9, 1986 page 2

Re:	Your	Letter	o f	4/8/86				
Sub	ject:	Status	o f	DEF inventory	σf	material	J.T.	shed

1 55gal with 3/5 whi	te powderendb		aqed being o Haiti
1 55 gal miscellaneou:	s material empt		in chemical e area
1 20 gal fiber drum pa debris	aper & lab Empt	reagen	vare discarded, it chemicals mical storage
1 20gal pail rusting	drum tar	letter	ers resp re: of 1/31/86 to Douglas DEP
2 5gal pails stacked	sodi	um Hvdroxide repa	ckaqed

2 5gal pails stacked with white crystal labeled oxider

crystalized mat'l removed

1 white styrofoam pack nitric acid Plastic sent to Haiti

#### End of DEP inventory

Chemical

All of these materials below are used in our facility in PAP in either plating or soldering lines. They are considered to be normal inventoried chemicals for Masden and have been shipped to Haiti for use in our production lines as follows;

Use in Haiti

Actane L59	Nickel plating activator
Nitric Acid	Electroless Nickel plating
	equipment passivator
Acetic Acid	component of Electroless Nickel
	plating bath
Alpha #446 Flux	Quality control and production
Alpha #346 "	fluxes for solder dipping &
Alpha #100 "	plating
Alpha #123 "	
Kester #715 "	

April 9, 1986 page 3

Re Your Letter of 4/8/86
Subject Status of DEP inventory of material in shed

Caustic Soda

Plating solution PH control

Tin lead plating solution

Tin/lead plating solution bath replenisher.

Enthone EDTA solution

0.0575EDTA titrating solution of Electroless nickel plating bath analysis

Sincerely yours,

MASDEN INDUSTRIES, INC.

David J. Babcock Chief Engineer

T-41

# THIS IS CARBONLESS PAPER Detach set from pad BEFORE writing. Do NOT WRITE ON PAD or copies will go thru to next set.

Form ADM-015 11/82

State of New Jersey

Department of Environmental Protection

REFERRAL	FORM	Date 7/16/	90
Lance 10	alix -	L 1	Suges X
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For Your - ACT	ION DAPPROVAL	☐ INFORMATION	X REVIEW
□ con	MENTS - SIGNATURE	D FILE D	

Multi-Form Metals (ata Masden) Community

Right to Know Survey For 1989 is enclosed

for your review with a code sheet to

aid your reading of the inventory pages.

# State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

# COMMUNITY RIGHT TO KNOW SURVEY FOR 1989 FILE COPY to settlety requirements under SARA TIME AND ADDRESS OF THE ADDRES

NJEIN	SIC	COUNTY/MUNIC.	DUE DATE		
124296-6	1000			IMPORTAN	IT: A separate survey must be completed
	•	196-1435		A 54011 17	for each facility. Y LOCATION
most,-	FORM	metals 1	The		t LOCATION illity or township location is different than
72 SouT				the maili	ng address on the label, enter location
montel	aw, N	J. 07042	?		or township belowELM_STREET
•••					CKAWAY NJ 07866
			6		
Indicate change	s to mailing	address on label	 4/18/90	Check he above ac	ere if you would like your survey mailed to
B Does this fa	cility use, st	ore, or produce an	y hazardous i	materials which	Number of employees at facility:
Act or Section	must be reported under the N.J. Worker & Community Right to Know Act or Section 312, Title III of the Superfund Amendments and Reauthorization Act?		Number of facilities in New Jersey		
(See Report	able Substa	nces and Threshol	ds) Ye	s    No	F Dun and Bradstreet No.
C Briefly desc	ribe the natu	ure of the operation	ns or busines:	s conducted at	
this facility:					G Check the box if you were
	MANJEA	CTURE FORMED	WIRES		granted a R&D exemption last year or if you wish to receive an application questionnaire.
(H) CERTIFICA	TION OF O	WNER/OPERATOR	OR AUTHO	RIZED REPRES	SENTATIVE — I certify under penalty of
law that I ha	ve personal	ly examined and ar	m familiar wit	h the informatio	on submitted in this document, and that
		those individuals re rate, and complete		r obtaining the i	information, I believe that the submitted
momation	is it de, affet	rate, and complete	<b>3.</b>	7/7/9.	-3500 Phone 2-1 15-2007
Signature	ul 1		Date	7/3/20	Number (201) 625-3957
Name (Print) E. CAZL FABEND Title Mesident					
		PARTMENT — Enterpolice and fire dep			bers, names and addresses (including v.
POLICE DEPT.	POLICE DEPT. Phone FIRE DEPT. Phone			one	
	Number (201 ) 989-7000 Number (201 ) 989-7000			· •	
Name Kock	ame ROCKAWAY POLICE DEPARTMENT Name ROCKAWAY FIRE DEPARTMENT Address ART St.		ART SE		
Municipality $R$	OCKAWAY	Zip		Municipality £	COCKAWAY Zip 07866
J FACILITY E	MERGENCY	CONTACT			0
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Facility Pho	ne Number	625,-3957	Ernerge	ncy Contact Ph	one Number (261) 464- 4355
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copy to your County Lead Agency, Local Emergency Planning Committee and your local police and fire departments.		RIGHT TO KNOW PROGRAM			
	-	committee address		ions)	CN 405
				1	Trenton, NJ 08625-0405
OR INTERNA	AL LISE OF	NIV STAT		ETS	

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

300187

Page \_\_\_\_\_of \_\_\_\_\_\_

Reporting Period: January 1 - December 31, 1989

FACILITY IDENTIFICATION AND SITE LOCATION	
A. NJEIN	C. Location Address 20 ELM STREET

B. Facility Name MULTI - FORM METAL D. City ROCKAWAY E. State NJ F. Zip 07866

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance ACT YLENE  CAS No. 74 - 86 - 2 DOT No. 1001  Substance No. (if available) 0015  Percent 00 State G Trade Secret (Check if claiming)	(Codes for all that apply.) <u>70</u> , <u>69</u> , <u>68</u> , <u>67</u> ,	(Enter Code) Max. Daily!/_ Avg. Daily!/_ Days Onsite 365	(Enter Codes, except Location(s); supply narrative.) Container <u>40</u> Conditions <u>02</u> , <u>04</u> Location(s) <u>S.W. CornE</u> 2
Substance OXY(3E)  CAS No. 1782 - 44-7 DOT No. 1072  Substance No. (if available) 1448  Percent 60 State 6 Trade Secret (Code) (Code) (Check it claiming)	70,69,67	Max. Daily//_ Avg. Daily//_ Days Onsite 365 (Actual Number)	Container 40 Conditions 02, 04 Location(s) 5.W. CORNER
Substance FLOPANC  CAS No. 74 - 98 - 6 DOT No. 1978  Substance No. (if available) 1594  Percent 60 State 6 Trade Secret (Code) (Code) (Check if claiming)	<u>70,69,67,</u>	Max. Daily <u>10</u> Avg. Daily <u>10</u> Days Onsite <u>36</u> (Actual Number)	Container 40 Conditions 02,04 Location(s) WEST WALL, CENTER ROOM
Substance AEROSOL DISPENSERS  CAS No DOT No.1950  Substance No. (if available) Z.968  Percent 60 State G Trade Secret (Check if claiming)	69,67,70,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 40 Conditions 02,04 Location(s) WEST WALL, CENTER ROOM
Substance AUS, COMPRESCED  CAS No DOT No. 1002  Substance No. (if available) 2070  Percent 60 State G (Code) (Check if claiming)	69,67,	Max. Daily Avg. Daily Days Onsite 365 (Actual Number)	ContainerConditions @ Z , O J Location(s) S.E. BACK CORNER
Substance DATTER DOT No.2800  Substance No. (if available) 2/52  Percent 60 State S Trade Secret (Check if claiming)	67,,,	Max. Daily 10 Avg. Daily 10 Days Onsite 365 (Actual Number)	Container 4/ Conditions 01,04 Location(s) NORTH WALL
Substance PETROLEUM OIL  CAS No DOT No. LZ20  Substance No. (if available) Z651  Percent 60 State L Trade Secret (Check it claiming)	67,70,66,	Max. Daily <u>09</u> Avg. Daily <u>09</u> Days Onsite <u>369</u> (Actual Number)	Container 38 Conditions 01, 04 Location(s) WEST WALL

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300188

Page 2 of 4

Reporting Period: January 1 - December 31, 1989

FACILITY IDENTIFICATION AND SITE LOCATION	
A. NJEIN 12429601000	C. Location Address 20 ELM STREET

B. Facility Name MULTI - FORM METALS D. City ROCKAWAY E. State MJ F. Zip 07866

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
	(Codes for all that apply.)	(Enter Code) Max. Daily <u>10</u> Avg. Daily <u>10</u> Days Onsite <u>365</u> (Actual Number)	(Enter Codes, except Location(s); supply narrative.)  Container38 Conditions0/,94  Location(s)S.W. Corner
Substance PETROLEUM DISTILLATES  CAS No. 8002 - 05 - 9 DOT No./268  Substance No. (if available) 2648  Percent 60 State L Trade Secret (Code) (Code) (Check if claiming)	67,70,66,	Max. Daily/ Avg. Daily/ / Days Onsite .365 (Actual Number)	Container 47 Conditions 01, 04 Location(s) CENTER OF BUILDING
Substance FETROLEUM DISTILLATES  CAS No. 8002 - 05 - 9 DOT No. LZ68  Substance No. (if available) 2648  Percent 57 State L (Code) (Check if claiming)	67,70,66,	Max. Daily <u>09</u> Avg. Daily <u>09</u> Days Onsite <u>365</u> (Actual Number)	Container 38 Conditions 01,04 Location(s) FAR SOUTH ROOM
Substance PETROLEUM CRUDE OIL  CAS No DOT No. 1267  Substance No. (if available) 2647  Percent 53 State L Trade Secret (Check if claiming)	67,70,66,	Max. Daily <u>09</u> Avg. Daily <u>09</u> Days Onsite <u>365</u> (Actual Number)	Container 38 Conditions 01,04 Location(s) FAR SOUTH ROOM
Substance DYES  CAS No DOT No.1602  Substance No. (if available) 2386  Percent 12 State L (Code) (Check if claiming)	70,67,,	Max. Daily <u>09</u> Avg. Daily <u>09</u> Days Onsite <u>365</u> (Actual Number)	Container 38 Conditions OL, 04 Location(s) WEST WALL- CENTER OF ROOM
Substance BUTYL- ACETATE  CAS No. 123-86-9 DOT No. 1123  Substance No. (if available) 1329  Percent 59 State L (Code) Trade Secret (Check it claiming)	70,67,,,	Max. Daily <u>09</u> Avg. Daily <u>09</u> Days Onsite <u>365</u> (Actual Number)	Container 38 Conditions 91,04 Location(s)
Substance DENATURED ALCOHOL  CAS No. 64 - 17 - 5 DOT No. 1179  Substance No. (if available) 9844  Percent 55 State L Trade Secret (Check it claiming)	<u>70,67,</u> ,	Max. Daily OP Avg. Daily OP Days Onsite 365 (Actual Number)	Container 38 Conditions 01, 04 Location(s) WEST WALL- CENTER - OF ROOM

See Instructions for codes.

Page 3 of 4

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

Reporting Period: January 1 - December 31, 1989

FACILITY I	DENTIFICATION	I AND SIT	<b>E LOCATION</b>

A. NJEIN 12429601000	C. Location Address 20 ELM STRE	ET	
	Dooken		

B. Facility Name MULTI-FORM METALS D. City ROCKAWAY E. State NJ F. Zip 07866

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance BUTYL- ALCOHOL  CAS No. 71 - 36 - 3 DOT No. UZO  Substance No. (if available) 1.330  Percent 52 State L Trade Secret (Check it claiming)	(Codes for all that apply.)	(Enter Code) Max. Daily <u>09</u> Avg. Daily <u>09</u> Days Onsite <u>365</u> (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container38 Conditions _OL_, O4_ Location(s)WEST_WALL_CENTER
Substance DEIVATURED ALCOHOL  CAS No. 64 - 17 - 5 DOT No. 479  Substance No. (if available) 0844  Percent 58 State 4 Trade Secret (Check it claiming)	70,67,	Max. Daily 09 Avg. Daily 09 Days Onsite 365 (Actual Number)	Container 38 Conditions 01,04 Location(s) WEST WALL CENTER ROOM
Substance N-BUTYL ACETATE  CAS No. 123 - 86 - Y DOT No. 1123  Substance No. (if available) 1329  Percent 51 State L (Code) (Check it claiming)	<u>70,67,</u> ,	Max. Daily <u>C9</u> Avg. Daily <u>O9</u> Days Onsite <u>365</u> (Actual Number)	Container 38 Conditions 01,04 Location(s) WEST WALL CENTER ROOM
Substance DENATURED ALCOHOL  CAS No64 - 17 - 5 DOT No. 1170  Substance No. (if available)	70,67,,	Max. Daily <u>09</u> Avg. Daily <u>09</u> Days Onsite <u>365</u> (Actual Number)	Container 38 Conditions 01,04 Location(s) WEST WALL CENTER ROOM
Substance /50PROPYL ALCOHOL  CAS No. 67 - 63 - 0 DOT No. 1219  Substance No. (if available) /076  Percent 52 State L (Code) (Check it claiming)	<u>70,67,</u>	Max. Daily <u>09</u> Awg. Daily <u>09</u> Days Onsite <u>365</u> (Actual Number)	Container 38 Conditions 01,04 Location(s) WEST WALL CENTER ROOM
Substance PAINTS  CAS No. ———————————————————————————————————	<u>70,67,66,</u>	Max. Daily	Container 46 Conditions 01, 04 Location(s) west ware BACK
Substance FLOBORIC ACID  CAS No. 16822 - 11 - 0 DOT No. 1225  Substance No. (if available) 934  Percent 55 State L Trade Secret (Code) (Check it claiming)	<u>68,67,66.</u>	Max. Daily _//_ Avg. Daily _//_ Days Onsite 36:1 (Actual Number)	Container 38 Conditions Q1, Q4 Location(s) SOUTH EAST CORNER

See instructions for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses. Complete sections A-F before making photocopies of this page.

300190

Page 4 of 4

Reporting Period: January 1 - December 31, 1989

FACILITY IDENTIFICATION AND SITE LOCATION		
A NJEIN 12429601000	C. Location Address 20 ELM STREET	

B. Facility Name MULTI-FORM METALS D. City ROCKAWAY E. State NO F. Zip 07866

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance ACCTYUE/E TETRABLOM/DE  CAS No. 77 -27 - 6 DOT No.2504  Substance No. (if available)  Percent 60 State L Trade Secret (Check if claiming)	(Codes for all that apply.) 6, 68,	(Enter Code) Max. Daily _// Avg. Daily _// Days Onsite 36-7 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 36 Conditions 97 , 0 9 Location(s) SOJH EAST CORNER
Substance SULFURIC ACID  CAS No. 2567 - 73 - 9 DOT No./839  Substance No. (if available) 126/  Percent 59 State 4 (Code) Trade Secret (Check It claiming)	68,67,	Max. Daily <u>/O</u> Avg. Daily <u>/O</u> Days Onsite 365 (Actual Number)	Container 39 Conditions 01,04 Location(s) SOUTH EAST CORNER
Substance MITRIC ACID  CAS No. 2097 - 21 - 2 DOT No.203/ Substance No. (if available) 1256  Percent 54 State L Trade Secret (Check if claiming)	<u>68 , 67 , 66 , </u>	Max. Daily <u>/O</u> Avg. Daily <u>/O</u> Days Onsite 365 (Actual Number)	Container 39 Conditions 01,04 Location(s) South BAST Calver
Substance Substance Substance No. 1664 - 39 - 3 DOT No. 1052 Substance No. (if available) Percent 59 State 4 Trade Secret (Check if claiming)	<u>68,67,</u> ,	Max. Daily <u>10</u> Avg. Daily <u>10</u> Days Onsite <u>365</u> (Actual Number)	Container 30 Conditions 0), 04 Location(s) 5. E. Corner
Substance  CAS No DOT No  Substance No. (if available)  Percent State Code)  Trade Secret (Check if claiming)		Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions, Location(s)
Substance  CAS No DOT No Substance No. (if available) Percent State Code)  Trade Secret (Check if claiming)		Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions,
Substance  CAS No		Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions,

See Instructions for codes.

#### CODES

<del></del>	PERCENTAGE CODES	CONTAINER CODES
	61 Unknown	50 Above ground tank
_	60 100%	49 Below ground tank (steel)
	59 90 - 99%	48 Tank inside building
	58 80 - 89%	47 Steel drum
	57 70 - 79%	46 Carı
<b>^</b>	56 60 - 69%	45 Carboy
	55 50 <b>-</b> 59 <b>%</b>	44 Silo
	54 25 - 49%	43 Fiber drum
	53 10 - 24%	42 Bag
	52 1 - 9%	41 Box
	51 0 - 0.9%	40 Cylinder
_		39 Bottles or jugs (glass)
		38 Bottles or jugs (plastic)
	PHYSICAL STATE CODES	37 Tote bin
		36 Tank wagon
~	S - Solid	35 Railcar
	L - Liquid	34 Other (Describe)
	G - Gas	33 Below ground tank (fiberglass)
-		32 Plastic drums
	IN ALMA COMPANIES CORDO	
	HAZARO CATEGORY CODES	STORAGE CONDITTION CODES
•	70 Firm become	Storage Constitution Cares
	70 Fire hazard	PRESSURE
	69 Sunden release of pressure 68 Reactive	· 01 Ambient pressure
	67 Immediate (acute) health hazard 66 Delayed (chronic) health hazard	03 Less than ambient pressure
	99 Detayed (Circinc) hearth incard	TEMPERATURE
		04 Ambient temperature
_	INVENTORY RANGE CODES (In pounds)	05 Greater than ambient
		temperature
	20 Greater than 10 million	06 Less than ambient temperature
•	19 1,000,001 - 10 million	but not cryogenic (freezing
	18 500,001 - 1 million	conditions)
	17 250,001 - 500,000	07 Cryogenic conditions
•	16 100,001 - 250,000	(less than -200°C)
	15 50,001 - 100,000	
	14 10,001 - 50,000	
	13 1,001 - 10,000	·.
	12 101 - 1,000	
	11 11 - 100	
	11 11 - 100 10 1 - 10	

#### MARAZITI, FALGON-8-GREGORY

A PROFESSIONAL ASSOCIATION
COUNSELLORS AT LAW

JOSEPH J. MARAZITI, JR.
CHRISTOPHER H. FALCON
JAMES R. GREGORY
LEAH C. HEALEY

65 MADISON AVENUE MORRISTOWN, NEW JERSEY 07960

> (201) 538-1221 TELECOPIER: (201) 538-4150

DIANE ALEXANDER!
MARK K. DOWDA

\*Also Member PA Bar †Also Member NY Bar Aalso Member DC Bar

March 4, 1992

New Jersey Superfund Branch I U.S. Environmental Protection Agency 26 Federal Plaza, Room 711 New York, New York 10278

Attention: Courtney McEnery, Project Manager

Re: Request for Information Under 42 U.S. C. Section 9601 et seg., and 42 U.S. C. Section 6901 et seg., Rockaway Borough Well Field Site, Morris County, New Jersey

Dear Ms. McEnery:

In compliance with the continuing obligation of Multi-Form Metals, Inc. to supplement its response to the USEPA's Request for Information as additional information becomes available, enclosed please find an inventory prepared for Multi-Form Metals listing the chemicals located on the premises. Due to the volume of chemicals, a more complete submission is not available at this time, however, this will be submitted promptly upon completion.

If you have any questions or comments, please do not hesitate to call our office.

Very truly yours,

MARAZITI, FALCON & GREGORY

Drani alexander.

Diane Alexander

DA/bz enc.

cc: Bruce Aber, Assistant Regional Counsel
David Landsittel

#### MARAZITI, FALCON & GREGORY

A PROFESSIONAL ASSOCIATION COUNSELLORS AT LAW

JOSEPH J. MARAZITI, JR. CHRISTOPHER H. FALCON JAMES R. GREGORY LEAH C. HEALEY

65 MADISON AVENUE MORRISTOWN, NEW JERSEY 07960

> (201) 538-1221 TELECOPIER: (201) 536-4150

DIANE ALEXANDERS MARK K. DOWD \*ALSO MEMBER PA BAR TALSO MEMBER NY BAR

February 6, 1992

New Jersey Superfund Branch I U.S. Environmental Protection Agency 26 Federal Plaza, Room 711 New York, New York 10278

Attention: Courtney McEnery, Project Manager

Request for Information Under 42 U.S. C. Section 9601 et seq., and 42 U.S. C. Section 6901 et seq., Rockaway Borough Well Field Site, Morris County, New Jersey

Dear Ms. McEnery:

Enclosed please find Answers to the Request for Information on behalf of Multi-Form Metals, Inc. as per your letter of January 29, 1992.

If you have any questions or comments, kindly contact my office.

Very truly yours,

MARAZITI, FALCON & GREGORY

Diane Alexander

DA/bz

enc.

cc: Bruce Aber, Assistant Regional Counsel

wander

# MASDEN INP. PSW 228A

Environmental Assurance Group, Inc.				
Lungships Complex . 180 Township Line Road . Helle Mend, NJ 04502 . (201) 874-7888				
A NEROSOL LE L	I O L	TORY JAD		
CHEMICAL NAME S=S	01	CONTAINER OF CONT		
10 Garnet Grain # 120W	S	Quit-Metal		
(From Alines Corp. North Creek NY)				
- @ Sulfuric Ald ile For		1/2 Gal - Plashe		
V 3 Thorganic Meid Flux # BB-176	4	Gulion - Plashe		
(Corner w.: 35 diprior Flux 11fy Cg.)				
NA) Ferric. Chloride Tol.	2	Gullon- Plashe		
13 Micro Lig Lab (Segrer (PH=9)	4	Quart - Plastic		
-DE Hydrochloric Asid 20°.	7	1/2 Gol - Plashe		
Murvel Mystery Cil Luprigat Controt.	4	Pint-Metal		
B Hydrofluoric Aviil	4	10 lb - Plastic		
- (5) Nitric Heid 40°	4	Gallon-Glass a. 1		
V@ Kestel Scilcler- Water Soluble	4	Quart-Glass		
(Originia Scidering Flux Formaki 211)				
ID Fakelife Parder (Red)	s	5lf-Plastic		
(Buchler Ltd Eventon IL 60204)				
-13 #911 Carbon Femores	4	Pirt-Plushe		
(Filelity Chem Products we Novice, NJ)				
13 Cyanide Titnihny Solution	7	602 - 61460		
-1:17) Endox Titrating Solution	4	11 11		
(3) Alpha Hyronolue Flux (Flamm.) #8.30	1			
(Alpha thetale Terry Chy, NJ)				

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	300195 Hge 2 of 5
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Environmental Assurance	the state of the s
Lunushipe Cumples • 180 Tawnshi	
A : A E E COSOL LE L	IQUID
- C=S	OLID SIZE TYPE NUMBER
CHEMICAL NAME	CONTAINERS
Enstripo TL-106	4 Pint - Glass
(Ethanene Inc., West Haven, CT)	
D Buffer Solution pl 4.0 (Eaker)	4
B 4 " pH 5.0 "	4
D Methyl thymol Blue (Baker)	5 5gr Gloss
D Murexide, Monohydrute Powder (Buker)	5 Administrate with hely ham.
1) Murexide Tablets (Buker)	S a sistema de constitución de la constitución de l
2 Radine 50 (Marchen Industries)	L aust - Austic
3) Cakite- Surfcon 300 pH 3.5	4
4) Section Silicate 42% Sol.	L Gallon - Metal
5) Klearall 54 I Etymoter, NJ	L William a suffer in
20 Micro Liq. Lab Cleaner	L Ant - Plastic
DSulfuric. Heid	L 9R - 61000
B) Kester Soldering Flux (Flumm)	4 Gallon- Glass
59 " " "	L Quart - Plastic
5) " " " " " " " " " " " " " " " " " " "	L Ant - Plastic 13-
a) Acetone	L 500ml-Glass 2
32 Bosin Flux	L 12 oz: - Plustic
3) " "	L 402 Gloss
Pump Cal	L Gallon - Plastic 1
3) Sturch Indicator Sol (Fisher)	L Part - 6/0531 -11- 2
	Company of the Compan

	•	300197	Ryc. 4. cf. 5	.*. <b>*</b>
		7286A		
H	180 Township Lim AB PACK INVEX	Kond • Hele Mond, NJ	(#503 P (301) #74-704#	
CHEMICAL NAME	L. LIAL S=Sot	CONTAIN	THE PERSON NAMED IN COLUMN	
3 Ammonium Hydroxide.		4 ll Ghosi.		
1(54) Unknown Corrosive Gold	: 5	2016 Fiber		
(55) Ammonium Riflewride.	<u> </u>	2-324 Box Fi	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN	
- @ Hydroflucric Acad		Gallon - Plash		
6) Sodium Cyanide	5	526 . Plastic		/
( Glacial Acetic Acid		Ot - Mastic	A. P. I.A. S. Salas	
- (3) Chromium Trioxides	1	Ot-Plastics		
200 Copper Sulfate	: .5	Box - Floshe &	219	
W Inhibited Hydrochlone Acid	/ 4	Gallon-Plush		
(Rust and Scale Remover)				1.11
JED Reliande No. 563 - Cleaner		Gallon . Netal	/ 1/2/2/2	4. 14.
- (Roun Flux Kemover Alpha Me				
(63) Vassium Pimp C.1	1	Gallon - Metal		
D Ferric Chloride Sulvition	4	Gallen - Plastic	2	7
- (6) Polasmum Permanaganate.	S	26.16 · fiber	eost.	
(oudirer)				1000
(6) Sultinge Acid	4	926-6/25	48 448	-
_ (1) Ammonium Hydroxide	4	90ll- BoHle A	5601	レボ
(B) Copper Cyande	5	70-90 St-Drum	THE PARTY OF LINES.	Transact Contract
- Dow Corney 1107 Flind	۷	5 Gal. Plante		
(100 % Silvene Polymer Ponts	uhble	The state of the s		1-6-4
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Page 5 of 5

## RSW2286A

Environmental Assurance Group, Inc.
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Lungships, Complex . 180 Township Line Road. . Belle Mond. NJ 08502. . A 111 874-7888

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	PALE	INVEN	LIUET

" A . A . K. C. CO. L. L.	121	UIP.
- CHEMICAL NAME: S=S	9	CONTAINER OF CONT
To Dow Corning sen Fluid		5-Gallon-Plash
(A-Dimethylpolysiloxane) Silicone		
Fluoteric Acid 45.50%	L	5-Gallon Plostica 8
D Lubricating Cil SAE to	4	
B) Rodine 50	4	20-Gal Fiber/Plastic
- Tar Congrands and Mireral Acids		
Contains Ceul , Poison	ï	1000 1000 1000 1000 1000 1000 1000 100
- Anichem Predikts Inc. :.		一 一
11) Sainks Steel Dexaler &	4	20-Gallon Figural
(Beighvener (Contines HEL Acid))		10 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
- DS-9-333 Tiveries Chrinicalis		
(3) Godium Hydroxide	4	30-Gollon Poly
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IN SGAL. CONTAINERS - VIEGIN FLUCBORIE ACID

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JULIE PACK. WILL NOTIFY

MASDEN WILL APPLY AL AN CAR NO.

HAZARDOUS SUBSTANCE/WASTE INFORMATION FROM MASDEN INDUSTRIES APRIL 1993 ECRA SITE EVALUATION SUBMISSION FOR ECRA CASE #93140

; Supervisor				Te	chnical Ni	ımber	
•	ADVA		TECHNOL  nd Avenue  PA 19015	logies, inc.	; <b>:!</b>		
•	٠.				NE	w customer	
require that th	re can determine wher e Generator Waste Pro e disposal of the waste	file Sheet be filled	ozardous w out. Your	aste material c cooperation in	an be lawf giving us t	ully disposed his informatio	of, we in will
1. GENERATOI	NAME: MOSDEN IN	OUSTRI ES		EPA ID NO.:	Per	DING.	1,
FACILITY A		STREET ROCKE	way	STATE:	NS	ZIP: 0786	5
BILLING AT	DRESS JAW 115J	Geobus Ar. ; South	Karm	STATE:	NT	ZIP: _ 070 1	<u> </u>
·	OR CONTACT:				а	01-625-350	0
- BUSINESS:	DOND LANDSIFTS	<u>ረ</u>	E:		PHONE: 2	01-625-395	<del></del>
TECHNICAL	YOURN 1	TITL	E: Munr	<u> </u>	PHONE:	101-625-32	<u> </u>
	SCRIPTION:	Packaged Laboratory	Chemicals				·
4. PROCESS	GENERATING WASTE: _	Lob Pac	kaging of Che	micals			<del></del>
- 6. DRUM CO	DOT	SIZE  SIZE  SIZE  SIZE  CIRC  CIRC  CIRC  MAJOR	30 11 - 8- 80 11 - 8- TUAL PACK	PIC JK - USO A JK - POY DA JK - POY DA JNG LIST)	104 ~77 T	мајол	
DRUM.#	DESCRIPTION	COMPONENTS	DRUM	# DESCRII		COMPONE	YTS ·
MI- A-01 W	ste Audliquid D.O.S.	H2904 HF (55)	MI#//	Wist Amonius	, Hodroxide	BULK - 30	111 P
	st Amage Liquiduos.	Acetone, Alohalas	m7#/2	Wate Copper	Cygnide	BULK -SS	1-11/1
MI-CHL-03 Wi	te OAM-A, NOC	Chloringted Solvents	(x) MI #13	Wark Aid, Ki	4.1.00	1. Buly- 20g	al Pol-
MI. NILL-04 Chen	ical Process Liquid DOS.	Snow & ADDYLAR OR US	10) MI 4/4	West Acid L	ruid NO.	BULK-SSga	11 (ns
MI-0X5-05 W1	e Oxid: ser p.o.s 1	Hasin Brangartels	W MI 45	Wate Acid Li	Q4id, 120.	BULK-SSI	<u>1 (As</u>
MI-CS-06 We	te Corosive SID p.o.s	Amorium Bifferidel	SC) MI#16	Week Conjound	Claring, D	22- بما دكار . 2 م	91/1
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	7. AUTHORIZED SIG	GNATURE: R	endi	Course	2		\
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ARTI Form # 0016

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S & W WASTE PACKING LIST Generalor MSOW TUOUSTRIKS DOT Ship Name Weste Act & LOSID, N.O.S Hazard Class Corresive Material EPA ID # \_\_\_\_\_ UNA 1360 Hazard Type 40 EPA Wasle Code \_\_\_\_\_ Page \_\_\_\_\_\_of HAZARD CLASS Inside Container State Water/Air-Reactive Flammable Corrosive Chemical Name Oxidizer Physical Paison ORM (No Formulas) Other OVERPACKED IN STYL-17-11 CAlmost Full "RODINE SO Anchem Products Inc. Ambler, PA CONTAINS: COAL TAR COMPOUNDS MNERAL Description. 1 A Dr. Almber Liquid 1 an Lew Stissing: Ofor No Solids

300203

ARTI Form #0024

ت	· Gor	nerelor	M.	SOW THOUSTRIKS					Vist	e A	:d.	10010 N.05
. 4					На	zard	Class	:	1	,	je	Material
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<del></del> *	Cor	ntainer	10 # .	MI I - H /4	EP	A W	aste Co	ode_		Do	02	
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	Insk	le Con	lainer		ē				HAZ	ARD	CLAS	5
	Quantity	Size	Type (M, G, PGP)	Chemical Name (No Formulas)	Physical State	MRO	Water/Air- Reactive	Corrosive	Flаттаble	Poison	Oxidîzer	Other
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	.•		1	Newark, NT 07-114								
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-				AN Acidic Motorial		<u> </u>	<u> </u>		<u> </u>		<u> </u>	
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300204

S & W WASTE PACKING LIST Generalor MSOW THOUSTRIKS DOT Ship Name WALTE Acid Liano, N.O. Hazard Class Gracie Makrial EPA ID #\_\_\_\_\_ Container Size/Type 20gel Pory CABOY UNA 1260 Hazard Type L.C Page \_\_ Inside Container HAZARD CLASS Water/Air-Reactive Corrosive Hammable Chemical Name Oxidizer Poison ORM (No Formulas) Other CLEAR SLUTION on key Oder of Typical (Slineing) Probably Sulfurice or Approved Constiller CONDITION RULK Item

300205

ARTI Form #0024

· 13	, i.  1	(	Mas	5 & W WASTE PA							gge-	Granide
. (	Sene	eralor.	<u> </u>	SOW JUOUSTRIKS  Type	UC U-	) I Si	ND NE	ne	R	مه ا	1 17	·.
·	EPA Cont	alnor	Sizo/T	suna 55 g./- 17 H	/IN	DNA	158	<del>)</del>	Haz	ord 7	Type	S, H
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	J0111	aniei										_ol/
	nside	Cont	ainer						HAZ/	ARD (	CLASS	
	Cuantity	Şizə	Type (M, G, PGP)	Chemical Name (No Formulas)	Physical State	ORM	Waler/Air- Reactive	Corrosive	Flammable	Poison	Oxidizer	Other
. 7		2551	Fib	Bulk DRUM - 13 APPROX Full	<u>_</u> S					1		
<del></del> -				W Approx BOLBS								
				COPPIR CYANIOE PO29								
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				2590 DRUM OVERPACKED								
. 7		<u> </u>		IN 559-1 17H DRUM								
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ARTI Form #0024

300206

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S & W WASTE PACKING LIST both A. R. Han 442 Bonners Generalor MASOLU JUOUSTRIKS DOT Ship Name WASTE AMMONIUM HOROXIDE Hazard Class Corrive Moderial EPAID#\_\_\_\_ 30 GAL POLY. UNIND 2672 Hazard Type L.C. Container Size/Type -Container ID # \_\_\_\_\_\_H EPA Waste Code \_\_\_\_\_\_ Dool Page\_ Inside Container HAZARD CLASS Type G, PGP) Water/Air-Reactive Flammable Chemical Name Corrasive Oxidizer Physical ORM Poison (No Formulas) Other Ξ DAUM - 1/2 Full Buck AMMONUM HYDROXIDE Swam MAY CONTAIN 4520 TO KI Surfacterits AMMONIA - 15-20%

300207

ARTI Form #0024

S & W WASTE PACKING LIST DOT Ship Name Waste Sadium Cranide, soci Generalor MSOW JUDISTRIKS Hazard Class Power B

UNNA 1689 Hazard Type S. 14. K

EPA Wasie Code Plot, Doo3: EPA ID #\_\_\_\_\_ Stol PAIL Container Size/Type ----Contelner ID # MI- CYN-/O Page \_\_\_\_/\_ol\_\_/ Inside Container HAZARD CLASS State OAM Water/Air-Reactive Flammable Corrosive Chemical Name Physical (No Formulas) Other SOUM CYANIDE Readire ARTI Form #0024

300208

S & W. WASTE PACKING LIST Waste Gravine Liquid, p Generalor MSOW JUDUSTRIKS DOT Ship Name -Hazard Class\_ EPA ID#\_ CNNA 1760 Hazard Type L. C Container Size/Type -Container ID # MT-AM-09 EPA Waste Code . Do 1 Inside Container HAZARD CLASS Physical State Water/Air-Reactive Corrasive Flammable Chemical Name Oxidizer Poison ORM (No Formulas) Other TRIETHANOL AMINE ARTI Form #0024 300209

S & W WASTE PACKING LIST Generalor MSOW THOUSTRIKS DOT Ship Name West Oald : 20 Corosive from Hazard Class Ox10146 & Carosive EPA ID # \_\_\_\_\_ UNNA 9/93 Hazard Type LJ.C. Container Size/Type ---Container ID # \_\_\_\_\_MI-0XL-08 Page \_\_\_ /\_ of . HAZARD CLASS Inside Container Water/Air-Reactive Type G, PGP) Corrosive Flammable Chemical Name ORM (No Formulas) Other 43 Pull Ditric Acid, 40° Chromium Trioxide Solution OX 101 Ex A Chronic Acid 4911 CARRON REMOVER"-PT

300210

ARTI Form #0024

. •	Gen	nolara.	Mr.	SOW JUDISTRIKS	DO	T SI	ilp Nat	πe (Λ)	<u>CH4,</u>	a <u>KA</u> QCA	L/R	en. Accordate
•	EPA Cont	. IV#_ Ininor	SIzo/T	ype								<u>S</u>
	Con	lainer Iainer	ID # .	MI- NHS- 07	20	A W	asia Co	xde	μÜ	<u> </u>	ر ()	(910
	0011	(GIII G										_ol/_
-		e Conte			٩					ARD	CLAS	S
TES.	Quantity	Size	Type (M, G, PGP)	Chemical Name (No Formulas)	Physical State	ORM	Water/Air- Reactive	Corrosive	Flammable	Poison	Oxidizer	Other
•	7	150	f1A	10g/ Filer - Powdred Joap	(							port-Rogett
•			1.3	(Surfactory)								1
•					1		1			<u> </u>		
•	1	JOLB	P	Box - Total to be ORGANIC	5							Dov- Kegulate
				SALT. Kenfal in Witer.	-			<u> </u>				- Noteric
,			1	but Soluble. Melts with Heat						$\dagger$		<u> </u>
	<del>-</del>			No oder Believe if to								
				be on Organic Acid Possibly					٠,٠			
•				Ethylene dianine Tetra acetic Acid	<u> </u>	<u> </u>		_				
				ar Citie Ach	<del> </del>	ļ	<del> </del>	<u> </u>	<u> </u>	<del> </del>	ļ	<u> </u>
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	4	چې	G-	Chylesolianize Tota ratio Acid (EDTA)	3	-		-	<del> </del>	╄	├	Bir. Rog Jak
		for	PL	PLASTIC Powder . NON-ANZ	2		<del> </del>	-	ļ	╂	┨—	4
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	7	777	P	"STRIP AID" - By MAC Dernid			1	-	$\dagger$	1	╁	1/
	-4	12/5	<b>'</b>	Called Manufecturer . Sax His	一	1			-	1.	1	
	<del></del>	1		Salin Meta Nitho Benzae Sulfonite	-	1		1	1	1	-	
•		1										•
	1	LB	P	CITAIC Acid	2							11
	1	Dot	P	BOG- DREANIC SI.d, N.O.S -								
			<u> </u>	An Owenic Salt, mells in flome -								
			<u> </u>	14.0 Solute Truted Atathe on							<u> </u>	
		<u> </u>	<u>  </u>	Oxidizer 4 cut	_ _							
•			↓	UNK, Protect #12							<u> </u>	
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**ARTI Form #0024** 

- . ,				SOW JUDISTRIKS	ĎО	T SI	np Nei	718 <u></u>	NA	TE (	0110	ive Solid, vi
	EPA	\	<del></del>	mal/1211								Material
-	Con	italner	Size/T	Type		,						SC
·	Cor	italner	ID#	MI-CS-06	ĒΡ	W.	asle Co					ol/
,	laste	le Cont	oloot				`	<u> </u>			CLAS	· · · · · · · · · · · · · · · · · · ·
	IIISIC	9 0011			State					NO C	5043	·
	(/) Quantity	Size	Type (M. G. PGP)	Chemical Name (No Formulas)	Physical S	ORM	Water/Air- Reactive	Corrosive	Flammable	Poison	Oxidizer	Olher
	$\overline{I}$	Sio	Fis	A Fluorde Selt- PHin	S							
***				Ag Solution 2-3					<u>.                                    </u>			
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•	1	43	P	BAG- Copper Silfite	3				·			Now-Koralite
	1	402	1	Potasian todide	5	1				$\vdash$		1,
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		1548	P	BAG- Ammoujen Bifluoride	2			/	٠,٠			
				<u> </u>						_		
	2	LB	M	CAN- ACTANG O BZ" -	<u>ک</u>	<del> </del>	<del> </del>	1/		ـــــ	<u> </u>	<u> </u>
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		<del> </del>		Hio Soluble - pH in Solution	-	-	╂	-	<del> </del>	┼	-	
- ,			<del> </del>	is 2 and. Tested for Oxidizer	-	-			-	┼	-	
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-		-	<del>                                     </del>	material is a Bifluoride	╁		+	┨──	┼─	╁	+-	<u> </u>
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		1	· ·	7,1 00 0,1	1	1	1		1	1		
	$\mathcal{I}$	GAL	M	SONUM SILICATE, SOLID	2					1	1	NON-Regulation
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				INTO SOLO FORM								
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•		ARTI F	otm #0	024								. 9/9

300212

S & W WASTE PACKING LIST WALK Oxidizer, NO. Generalor MSOW JUDUSTRIKS DOT Ship Name\_ Hazard Class OXIOIZEA EPA ÎD # ..... Container Size/Type ...... 5 99 WHA 1429 Hazard Type S. T. E Container ID # MIZ- 0XS-05 HAZARD CLASS Inside Container Water/Air-Reactive Flammable Chemical Name Corrosive Poison (No Formulas) Other POTASSIUM IDDATE G- . 43 Dictionate (DOO7) (A) LB SMILL FIB DEVM - Potesiun Remorphile 1 40cm PAIL- DOUBLE BAGGED -OKIDIZING MATERIAL - NO. TRADA NAME JOHNTIFRATION BUT MANUARTURED BY ENTHOUE -OFF-WHIE SALT - DX:0176A 4066 au PAR

ARTI Form #0024

300213

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Generalor MISOW THOUSTRIKS DOT Ship Name CHENCH PACKING LIST

Cenerator						1
EPA ID #		•	· · · · · · · · · · · · · · · · · · ·	•	Hazard Cla	SS BOT/AC
O at the State	5591	117 H	•		LINI/NIÅ	- Hasa

 UN/NA Hazard Type L

BPA Waste Code AT x2.

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Insid	e Cont	alner		ej.				HAZ	VAD (	CLAS	3
duantity	Size	Type (M, G, PGP)	Chemical Name (No Formulas)	Physical State	овм	Water/Air- Reactive	Corrosive	<b>Flammable</b>	Poison	Oxidizer	Olher
1	122	M	Pair. "VYDAX 550 - Fluoro teloner	1							Non-Kegylak
			Dispersion (1/2 full)								
٠.٠			·								
1	GAL	M	NOW-Corrosive - (UNK. Protocol #3) (Full)	L							war Rejulated
			NOW-Corrosive - CUNK. Protocal	<u> </u>	_	<u>  </u>			<u> </u>		
		<u> </u>	#3) (Full)			<u> </u>				-	<u> </u>
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	Qt	P	(All) - "HYDROCOTE D"-	1		-}	├	<del>  ``</del>	$\vdash$	-	Non-At 76/9 +
		├	Tradytrial Cating Compound Tested NON-GROSIC NON-Flamm.	+	<del> </del>		├	-	╂─	-	
	1		Hno 5.1-61C			1				1	
			:								
1	1/Art	6	"Mildly Alkaline Lig w/	1					_		NOW-REGULA
	<del> </del>	<u> </u>	Surfactants (SOAD COMPOUND)	-	1_	-		<del> </del>	_	-	
	-}	<u> </u>	PH P-9 - See UNK. Protocol	-	╅—	-		-	┦—	-	
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7	ML	P	(/2 full) - Yerry Thick - SOAP	+-	-		+-	-	+	┪━	. :
		1:.	BLUTION (SUREAGENT) - UNK.	1	1	1-	1	1	<u> </u>	1	
			Protocol #2								·
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	Gen	erator	<u> </u>	SOW FLOUSTRIKS	bO	T Sh	ilp Nair	ne	VAJ7	0	RM.A	, N.O.S.
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i	Con	lalner	Size/	Type	UN	M)	16	93			Type_	4.7
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_	Insid	le Con	lainer						HAZ	ARD (	CLASS	<del></del>
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-salata	intity	Size	Type G, PGP)	(No Formulas)	ical	ORM	r/Ai ctive	osiv	шар	Poison	Oxidizar	Other
_	Ö	<i>ज</i>	(K,		Physical	Ō	Water/Air- Reactive	Corrosive	Flammable	Poi	Ö	
	$\mathcal{T}$	m	11	"CHLOROTHENE SM" - Inhibita	L	(A)						· · · · · · · · · · · · · · · · · · ·
-				Pull) 1,1,1-Trichloroethane, UZLS								
	47	<u> </u>	<u> </u>							·		1
•		SAL	M	" KLEARALL SST"- Claringed	1	$(\mathcal{E})$						
•				Solvent Blend, N.O.S. (*11)								
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				(UNK. Protocol #4):					<u></u>			
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		GIL	6	July. "BLACO-TRON H-15" -	1	E	<u> </u>	<b>↓</b> _	<del> </del>	<u> </u>		
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	1	GOL	F	(Full ) - 5. Tetre brome ethene	1	Ó	<b>—</b>	1	1	1		•
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				(see Acetylene Yetra bramide).	]							•
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300215

- ,	. Ger	erator		SOEN LUOUSTRIES								<u> </u>
•	EPA	\ ID #		-	Ha	zard	Class		: 4	<u>√~1</u>	<u>ic</u>	Material
	Con	itainer	Size/	Type	Uh	MA	13	<u> </u>	. Haz	erd '	Type,	6.C.T.C
	Сог	itainer	ID#	MI- A-01	EP	AW	asle Co	ode	D	0 • 1	,01.	34 DOUP
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	Insid	e Con	lainer	. :	State				HAZ	ARD (	CLAS	3
······································	Quantity	Size	Type (M, G, PGP)	Chemical Name (No Formulas)	Physical Sta	ORM	Water/Air- Reactive	Corrosive	Flammable	Poison	Oxidizer	Other
	$\overline{I}$	1/2 2.1	14	(PT) SULFURIC ARIO, 65° Be	1			V				
	7	7.7	PL	(Yzrd) Hydrochloric Acid, CONC.	4			1				
	1	541	PL	(at) "C-88 RIST+SCAR KNOWA" -	4			/		·		
_				Hydrodbic Acid Solution	4			/				
٠												
	2	921	P	(Full) Ferric Chloride Solution, 42 Be	4			1				
	1.	511	ρ	(Pt) 11 11 11 11 11	4		<u> </u>	<u></u>	<u> </u>	<u> </u>		
	1	601	P	(/2 /011) Ardrofl-oric Acid, U134	4	<u> </u>	ļ	_	<u>.</u>		<u> </u>	,
		691	P	(1411)	4	<del>  -</del>	<del> </del>	1-		ļ	<del> </del>	
_	1	121	P	(full) "OAKITE SUArcan 300" -	4	-	<del> </del> -	<del>/</del>	-	}	<del> </del>	
		<u> Qt</u>	1-	Moderately Acidic Product + Gatains	1-	_	<del>                                     </del>	1		╂—	<del>                                     </del>	
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	•	1	1	JULIUS SECULOTIA	-				<u> </u>	T	<b>「</b>	
-		BOL	P	Aid Solder Hux (TIN (UAD) Styll	1			1				Saus-
	2	Qt	G	(1411) - Starch Indicator Solution	1	-	-	-	-	┼-	╁╌	Now-Koulet
-		PT	P	4 - Buffer Station, PHS.0	1					5		4
•	_/_	351-	y 6		14	1_	<del> </del>	V	<u> </u>	ļ		
			-	UNK. Protocol 48- Acid Solution	-	┼	1:	-	-	-	<del> </del>	
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				A 10% Austonic Aid Colution								
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•	-			Stran M. Wilm Benzer Gulfonote 226								
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	A	ATI F	orm #0				30	0216	5		1	9/91

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EPA IU #_		ype								4.25
Container S	SIZ8/T	MI T- FL-02	UN FD	1/IVA * 141		<u> </u>	. Haz	aro loo/	ıype, '.	2, 2 (· 2002
Container I	D#		EP.	A YY	8518 CX	9OX				
	•	•					Pag	θ		_01
Inside Conta	ner		ē				HAZ	שא	CLAS	3
Quantity Size	1,758 (M. G. PGP)	Chemical Name (No Formulas)	Physical State	MHO	Water/Air- Reactive	Corrosive	Flammable	Poison	Oxidizer	Olher
1 5991	Met	(35al) - Waste Oil + Transmission	L							Gabustib
.		Alsid - Gubratible					_	-		
1 53.1	Met	(29-1) - LACQUER C 9346 - HAMM.	4				~			
1 pt.	6	2-Arojano	L				v		<u> </u>	
2 01	6-	Acetre (vooz)	1_	<u> </u>			سا			
1 /20+	6	"Grand" - Alcohol Boxed Strin Solution			<u> </u>		1.6-	1	<u> </u>	
	G	"KINCO #220 ROSIA HUX" Alachal Bige	14	<del> </del> _	-		1-		<del> </del>	<u> </u>
1 35/01	6-	" ALAHA HYDROSOLV FLUXP38"- Lobelt	4	-	╂	<del> </del>	14	1-		
		Fhamthe Mixture	╂—	╀	-			┼—	-	
1 20.02	P	Period Page	1	╂─	┨──	├─	<del>  : :</del>	<del>]</del> —		
1 4.02	P	Combustible Lignil-Herme Soluble	1	1-	-	╁	+	-		Confustion
7 /02	<u></u>	Gur. Protocol #9)	上			1			1	Con dozije
1 /207	6	(/L PUII) - FLAMA LIQ. N.O.C	1				1			
		Alcohol Type Solution - Alcohol	-	4_	_	↓_	-	<u> -</u>		<del> </del>
	•	Sluble	+-	-	-	-	┵	-		
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## State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Manifest Section

300218

CN 028, Trenton, NJ 08625 Form Approved. OMB No. 2050-0039. Expires 9-30-94 Please type or print in block letters. (Form designed for use on eilte (12-pitch) typewriter.) Manifest Document No 1. Generator's US EPA ID No. Information in the shaped areas is not required by Federal law. 2. Page 1 UNIFORM HAZARDOUS WASTE MANIFEST Generator's Name and Mailing Address A. State Manifest Document Number MASDEM INDUSTRIES 22 South Park St. B. State Generator's iD Hontclair, NJ 07042 Generator's Phone ( 231 20 Elm St. US EFA ID Number Transporter 1 Company Name C. State Trans. ID SECON A FUTEUDITES. D. Transporter's Pront PERSON E. State Trans. (D 9. Designated Facility Name and Site Address US EPA ID Number F. Transponer's Finance SEW WASTE, INC. G. State Facility's D 105 Jacobus Avenue m. Fashin, s Friote ( Scuth Kaarny, 4,J, UTC32 ni. US DOT Decorption line uping Proper Shipping Neme, mesero Greek end 10 Cumbert .\_5' -WASTE FLUGSURIC ACID RO (DUUD) Corresive Material MINISTER MATERIAL WASTE SULFURIL ACID RO DUG2 Corresive Katerial 涯: 1630 Aconone Descriptes (or Materials Lieues Above Sulfuric Acid (96) Mater (C/L)Acid (1/2) Water (20/40)(C/L) Tricthylene Glycol(99/100) Ethylene Glycol(0.1/0.5)(L) 15. Special Hengling Instructions and Additional Information EMERGENCY CONTACT & PHONE: Rendy Courses(201)525-3500 004 is 1 gal pails, 003 is 30 gal SEN APPROVAL NO. 035673 a)003. b)005. c)004 15. GENERATOR'S CERTIFICATION: I hereby deciare that the contents of this consignment are fully and accurately described above by proper shipping name and are desaited, packed, marked, and labeled, and are in all respects in proper condition for transport by high eavy according to applicable international and national government regulations. if I am a farge quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree if avercate mined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimize the present and future threat to human health and the environment; OR, II , am a small quantity generator, I have made a good faith effort to minimize my visits generation and that is available to me and that I can afford. Car Yes ransporter 1 Authowisegement of Receipt of Materials Printed/Typed Name Month Day Transporter 2 Acknowledgement of Receipt of Materials Frinted/Typed Name Month Day Yezi 19. Discrepancy Indication Space 20. Facility Owner or Operator, Continued to PENDING MANIFEST REVIEW 8 Month Day Year EPA Form 5703-22 (Rev. 9/88) Previous egitions are obsolete. SIGNATURE AND INFORMATION MUST BE LEGIZLE ON ALL COPIES 3 - TSD MAIL TO - GENERATOR

#### S & W WASTE; HICHUS

115 Jacobus Avenue, South Kearny, NJ 07032 (201) 344-4004

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Use Ball Point Pen - Press Firmly

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E	PA ID NO.	UTD OO	1476	182
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<u> </u>	- M.S.	J.g. 746040		
				<del></del> -
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	D. TOXIC	ITY CHARACT	ERISTIC	
	T:- ':-			<del></del>
٠	EPA HW	CAS No.2	_	Actual '
	No.1		Level	Level
			(mg/L)	
	D004	7440-38-2	5.0	NO.
•••	D005	7440-39-3	100.0	NO_
••	D006 D007	7440-43-9 7440-47-3		
ζ,	D008	7439-92-1	ľ	
1	1 D009	7439-97-6	0.2	110
	D010	7782-49-2	1.0	122
	D011	7440-22-4	5.0	40
	D018	71-43-2	0.5	140
lloride	D019 D020	58-23-5		
 L.	0020	57-74-9 108-90-7		
 	D022	67-66-3	4	
	D023	95-48-7	\$200.0	
	D024	108-39-4	1200 0	NO.
•	D025	106-44-5	1200.0	NO
•	D026			12 -
 BAZBAG	D016	94-75-7 106-46-7		14.02
hane	D028	107-06-2	ì	
Tylene		75-35-4	0.7	V — —
BDB	D030	121-14-2	³0.13	No.
	D012	72-20-8	0.02	NO -
d	D031	76-44-8	0.008	1.7.
Izene	0032	116.74	FERISTIC  Regulatory Actual Level (mg-L)  5.0 A/Q 100.0	
scieus Izane		115-74-1 87-65-3		NO.
sue' '	0034	67.72.3		20
7 1	D013	58-89-9	0.4	NO_
	1			1

APPROVAL CODE\_\_\_005

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A GENERATOR INFORM	ATION.					ب ا				
GENERATORS NAME		00572	iès INC			<u></u>				
MAILING ADDRESS	<del></del>		4		CAIR NI	07042				
WASTE PICK-UP ADDRES							A ID NO.	NTD OO	1476	092
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		TOIL	THUCKNE	- ~	JUCH N	AT USCD				
PACOESO GENERALINA			1 ()				D TOYE	CITY CHADACT	EBISTIC	
IS THIS WASTE FROM A	PLANT CLOSURE OR PLANT	CLEAN UPZ	YES NO				J. 102,	- 1	;	
		<del></del>	-	<u>-</u>			EPA		Regula-	<u> </u>
B. PHYSICAL CHEMICAL	CHARACTERISMICS				<u></u>	Contaminant	HW	CAS No.2	tory	Actual
ODOR				1			140.1	<del>                                     </del>	(mg/L)	Level
MILD	PHYSICAL STATE @ 70E	FLASH POIN	T (F/C.C.) LIQUIDS	CORF	Ma)YTiVI2OF	Amania	0004	7440 30 3		1
STRONG	SOLID	_ <100	ACTUAL	1 —		Barium	D005	7440-39-3	100.0	
		>140-200		17		Cadmium	D006	7440-43-9	1.0	NO
	SEMI-SOLID	>200		_			1		1 '	110
	BI-LAYERED		Y (SOLIDS)	1		Mercury	DOOS	7439-97-6	0.2	110
000000000000000000000000000000000000000	MULTI-LAYERED	YES	NO	EXAC	Т рН	Selenium	D010	7782-49-2	1.0	10
				1		P				17/2 -
	D REACTIVITY (BOM)	TREAT   ROCKALINY   N TO 7862   EPAID NO   MTD 00/476 09								
TOTAL SOLIDS	SI MANE MASCAL AND LITTLE AND CLAIR NT TOYER  ORES 27 SUTH PACK STRAIL MADCLAIR NT TOYER  EPAID NO MID COULTED TO TRAIL RECRALIZATION TO THE CONTROL THORSE OF THE COUNTY									
SUSPENDED SOLIDS			J		< 1,000 mg/l	1				
- WATER	<b>*</b>		}					1		
COSCIEIC GRAVITY					· •	m-Cresøl		108-39-4	1200 0	NO
<.8>1.01.2	SHOCK SENS!	IIVE		[				1		NO
8-1>1.2			NA	]			1		_	W2-
<u> </u>			1 11							N/D
C. CHEMICAL COMPOS	ITION	- <del>-</del>				1			T	VD
TOI	ethy y La 16.	C141						(	L = '	30
	•	=				1			1	
_(42	= //2 - 2/-(		· · · · · · · · · · · · · · · · · · ·				D031	76-44-8	0.008	1
<del></del>	<del></del>		<del></del>		%	1 .	0032	118-74-1	30.13	1 * *
_ETH	YICKLE GAGE	<u> </u>		_ 4	1-0.5 %			1 ' 1	0.5	
	, ,		9 ~	7	( )					NO
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#### S & W WASTE, INC.

115 Jacobus Avenue, South Kearny, NJ 07032 (201) 344-4004

300220

CUSTOMER • 009623
LSR#
B #

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PLEASE NOTE THE CHEMICAL COMPOSITION TOTAL IN THE MAXIMUM

PPROVAL CODE	(11)
SUSTOMERQ	09673
SR #	
ECHNICAL REP. INITI	ALS SMK

1 - 2	. 7 Ose b	an Form	ren - Fress F	111111	У		COMMO	AL HEF. INITIA	(CS	
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						ĺ				
PERATOR INFORM	ATION .	•				٠, ــ				<del> </del>
NERATORS NAME	MASDEN 11	<b>1</b> 0057	RIĖS		_					
	22 South 1			4.1	TCL AIR M	T 0 7042				
			REEL AT	<u>0~</u>		1 0 7 0 7 5				
E PICK-UP ADDRES	ss 20 EZM ST	REET,	<u>ROCKAWA</u>			EPA				
CHICONTACT_ RA	NDY COUR	SEN]	ТЕСН СО	INTAC	T PHONE # (20/)	625-3500	M.S.	D.S. Attached	YES_	**NO
	TE FLUOBO									
						. CACIN				<del></del>
DESS GENERATING	WASTE VICTO	FCU	OBORIC	71.C	172 /AOI C	ملت ر				
							D. TOXIC	ITY CHARACT	TERISTIC	
HIS WASTE FROM A	PLANT CLOSURE OR PLANT	CLEAN UP?	YES NO _=							•
							EPA		Regula-	
PHYSICAL/CHEMICAL	CHARACTERISTICS					Contaminant	HW	CAS No.2	1007	Activel
ODOR		1		i i	ì		No.1	<del> </del>	(mg/t)	Level
NONE	PHYSICAL STATE @ 70'E	FLASH POIN	T (E/C.C.) LIQUIDS	CO	RROSIVITY(cH)		ļ .	}	(	
MILD	SOLID	_ <100	ACTUAL	بسا	52.0	Arsenic	D004	7440-38-2	5.0	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>
STRONG DESCRIBE	CIOUID	100-140		. —	> 2.01-5	Barium Cadmium	D005	7440-39-3 7440-43-9	1.00.0	30-
DESCRIBE S/IAR	POWDER SEMI-SOLID	>140-200	•	1-	> 5.01-9	Chromium	0007	7440-47-3	5.0	100
NGENT	SINGLE PHASE	l		. —	> 9.01-12.50	Lead	D008	7439-92-1	5.0	NO
	BI-LAYERED MULTI-LAYERED	IGNITABILIT	Y (SOLIDS) NO		2 12.50	Mercury Selenium	D009 D010	7439-97-6 7782-49-2	0.2	<del>82</del> -
DLOR: CLEAR				EXA	ICT pH_Q	Silver	D011	7440-22-4	1.0 5.0	W/
Yellow	<u> </u>	<u> </u>	<del>,</del>	<del> </del>		Benzene	D018	71-43-2	0.5	NO
PERCENT LIQUID SOL	ID BEACTIVITY (PPM)	^ -	FUELS/SOLVENTS		AQUEQUS	Carbon tetrachloride Chiordane	D019 D020	56-23-5 57-74-9	0.5	32
TOTAL SOLIDS	TOTAL CYANIDES	DES /2-	BTULB	•	TOTAL ORGANIC CARBON	Chlorobenzene.	D021	108-90-7	100.0	NO
REE LIQUIDS 100			%HALOGEN		< 1,000 mg/l	Chioroform	D055	67-66-3	6.0	NQ_
VATER		TIVE	%ASH	1	< 25,000 mg/la	o-Cresol	D023 D024	95-48-7 108-39-4	1200.0	WO
SPECIFIC GRAVITY	AIR REACTIVE		*SULFUR	' '	< 50.000 mg/l	p-Cresol	D025	106-44-5	*200.0 *200.0	20
<.8>1.0-1.2	GENERATES T	OXIC FUMES	%8S&W		< 100,000 mg/t	Cresol	D026	**********	1200.0	10
81 ملد 81.	when mixed with	h H2O, acid or	<b>{</b>		EXACT	2,4- D	D016 D027	94-75-7 106-46-7	10.0	32
C. CHEMICAL COMPOS	NOITION		<u> </u>		RANGE	1,2- Dichlorosthane	D058	107-06-2	7.5 0.5	NO
		-1			MINMAX.	1,1-Dichloroethylene	D029	75-35-4	0.7	NO
FLL	10BORIC A # 16872.	<u> </u>			40-58 ×	2,4-Dinitrotoluene Endrin	D030 D012	121-14-2 72-20-8	0.13	26
CAS	# 16872.	-//-0				Heptachlor (and	D031	76-44-8	0.02	42
<del> </del>			<del></del>		•	its hydroxide).		1	l	140
0.4	ic ACID				1 7	Hexachlorobenzene Hexachlorobutadiene.	D032 D033	118-74-1 87-68-3	0.13 0.5	772
					1-2 ×	Hexachioroethane,	<b>D034</b>	67-72-4	3.0	20
<u>CAS</u>	# 10043-3	3-5			(1 <u>/1)</u>	Lindane	0012	58-89-9	0.4	42_
					×	Methoxychlor  Methyl ethyl ketone	D014 D035	72-43-5 78-93-3	10.0	1333-
_ [	raille		٠.		20-46 x	Nitrobenzene.	D036	98-95-3	2.0	NO
	<del></del>					Pentrachiorophanol -	D037	87-86-5	100.0	<del>222</del>
<del></del>	<del></del>					Pyridine Tetrachloroethylene	D038	110-86-1 127-18-4	35.0 0.7	<del>222</del>
					×	Toxaphene	D015	8001-35-2	0.5	NO
×				\ <u>\</u> \	<u>*************************************</u>	Trichloroethylene	D040	79-01-6	0.5	120-
	•		*	<b>3</b>	_ (\\ ) ~ .	2,4,5-Trichlarophenal. 2,4,6-Trichlarophenal.	D041 D042	95-95-4 88-06-2	400.0 2.0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
<del></del> -	<del></del>					2,4,5-TP (Silvex).	D017	93-72-1	1.0	
<del></del>		<del></del>			×	Vinyl chloride	D043	75-01-4	0.2	XX2
					×	Hazardous waste n	umber		<u> </u>	<u> </u>
					*	<sup>2</sup> Chemical abstracts	MINICH NU	mber.		
					*	<sup>3</sup> Quantitation limit is	greater the	in the calculate		
		<del></del>				regulatory level. The quicomes the regulatory lev		limit therefore b	<b>**</b> *	
<del></del>	1				~ <del>~</del>	4 if o-1 m-2 and p-Cre	Hai conce			
<del></del>						differentiated, the total of				

**S & W WASTE, INC.**115 Jacobus Avenue, South Kearny, NJ 07032
(201) 344-4004

300221

1-8	•	Use	Ball	<b>Point</b>	Pen -	Pres

CUSTOMER # 009673

O	_ງ Use B	all Point Pen - Press F	irmly		TECHNIC	AL REP. INITIA	us_ <u>C</u>	1K
				-1		,		<u> </u>
GENERATOR INFORM	ATION.			. L				
		OSTRICA INC.						
All ING ADDRESS	22 SAUTH P	PARK STRUT,	MONTCHAIN N	J 07042				
ASTE PICKARE ADDRES	s 20 67 00 1	T PACKAWAY	NT 17266	EP	A ID NO	WTN X	11476	دوم:
concourant Pa	1104 Carle 504	T ROCKAWAY	NITACT PHONE # (2-/ )	C 25 2500	M C :	N. S. Allendon	VED	- NO
			MINO PHONE & CALLED 7	<u> </u>	M.S.	U.S. Attached	TES	NO
	TE <u>SULFUR</u>	JULFURIC AC	(O) AVE (154					
OCESS GENERATING	WASIE		702 7087 607					
THIS WASTE FROM A	PLANT CLOSURE OR PLANT	CLEAN UP? YES NO			D. TOXIC	CITY CHARACT	reristic	
<del></del>				· · · · · · · · · · · · · · · · · · ·	EPA	1	Regula-	T
PHYSICAL CHEMICAL	CHARACTERISITICS			Contaminant	HW	CAS No.2	tory	Actual
ODOB					No.1		Level (mg/L)	Level
NONE MILD	PHYSICAL STATE @ 70 E	FLASH POINT (F/C.C.) LIQUIDS	CORROSIVITY(bH)	Arsenic	D004	7440-38-2		40
STRONG	SOLID	<100 ACTUAL 100-140	<b>2.0</b>	Barlunt	D005	7440-38-2	5.0 100.0	20
DESCRIBE	POWDER	>140-200	> 2.01-5 > 5.01-9	Cadmium	D006	7440-43-9	1.0	10
	SEMI-SOLID SINGLE PHASE	≥5200	> 9.01-12.50	Chromium	D007	7440-47-3 7439-92-1	5.0 5.0	NO
	BI-LAYERED	IGNITABILITY (SOLIDS)	≥ 12.50	Mercury	D009	7439-97-6	0.2	140
N 48.	MULTI-LAYERED	YESNO	EXACT pH	Selenium	D010	7782-49-2	1,0	NO
DLOR:				Silver	D011	7440-22-4	5.0 0.5	110
ERCENT LIQUID SOL	D REACTIVITY (PPM)		AQUEOUS	Carbon tetrachloride	D019	56-23-5	0.5	10
TAL SOLIDS	TOTAL CYANIDES		TOTAL ORGANIC CARBON	Chlordsne	D020	57-74-9	0.03	NO
SPENDED SOLIDS	AMENABLE CYANI		< 1,000 mg/l	Chlorobenzene.	D021	108-90-7	100.0	NO.
REE LIQUIDS	*4		< 10,000 mg/l	o-Cresol	D023	67-66-3 95-48-7	6.0 1200.0	X2
PECIFIC GRAVITY	WATER REACTIVE	%SHEFUR	< 25,000 mg/l	m-Cresol	D024	108-39-4	1200.0	10
<.8 ->1.0-1.2	SHOCK SENSI			p-Cresol	D025 D026	106-44-5	1200.0	140
.8-1>1.2	GENERATES T when mixed with	ONIO : OMEO	EXACT	2.4- D	D016	94-75-7	*200.0 10.0	NO.
	base		<u> </u>	1,4- Dichlorobenzene	D027	106-46-7	7.5	MA
CHEMICAL COMPOS	SITION		RANGE	1,2- Dichloroethane 1,1-Dichloroethylene	D028 D029	107-06-2	0.5	149
. Fee	I FURIC AND	^	96 70 mx	2,4-Dinkrotoluene	D030	75-35-4 121-14-2	0.7 <sup>3</sup> 0.13	70
117	LFURIC ACT	<del></del>	4	Endrin	D012	72-20-8	0.02	00
	71 1 <u>C</u>			Heptachlor (and its hydroxide).	D031	76-44-8	0.008	Alb
			- <del></del> *	Hexachibrobenzene	D032	118-74-1	³0.13	NO
				Hexachiorobutadiene.		87-68-3	-0.6	NO
			G'	Hexachioreethane,	12°1034	67-72-1\ 58-89-9	3.6 0.4	142
	· · · · · · · · · · · · · · · · · · ·			Methoxychior	D014	72-43-5	10.0	20
	<u> </u>			Methyl ethyl ketone	D035	78-93-3	200.0	NO
	<u> </u>		<u> </u>	Nitrobenzene Pentrachlorophenol	D036	98-95-3 87-86-5	2.0	140
	$\Delta N$		××	Pyriding	D038	87-86-5 110-86-1	100.0 35.0	NO
		· (		Tetrachioroethylene	D039	127-18-4	0.7	NO
	<u> </u>		-2	Toxaphene Trichloroethylene,-	D015	8001-35-2	0.5	142
<del></del>		7.0	$\Delta_{i}^{*}$	2,4,5-Trichlorophenol.		79-01-6 95-95-4	0.5 400.0	NO
	<u> </u>		MO (1) 34	2,4,6-Trichlorophenol.	D042	88-06-2	2.0	140
· · · · · · · · · · · · · · · · · · ·	<u> </u>			2,4,5-TP (Silvex).	D017	93-72-1	1.0	1 <del>20</del>
			*	Vinyl chloride	D043	75-01-4	0.2	100_
<del></del>				Hazardous waste r		·		<u> </u>
			*	<sup>2</sup> Chemical abstracts <sup>3</sup> Quantitation limit is			4	
				regulatory level. The qu				
			<u> </u>	comes the regulatory le	vel.			•
	TO.	· · · · · · · · · · · · · · · · · · ·	-	4 Ko-1 M-2 and p-Cre				
	<b>V</b>		•	differentiated, the total	cresol (D02	o) concentratio	in .	

case of an emergency or spill immediately call the state this emergency occurred in and me N.J. Dept. of Emitro

# State of New Jersey Department of Environmental Protection Division of Hazardous Waste Management Manifest Section CN 028, Trenton, NJ 08625

300222

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WASTE MANIFEST	1. Generator's US EPA ID N 되 되 하 여 여 1 시 시 기	。 님이여겨게(1)	ument No.	2. Page 1 of 3	iaw.	in the shaded uited by Fe	area: dera
Generator's Name and Mailing Address				A. State Ma	nifest Documen		
MASDEN INDUSTRIES			į		<u>JA 13</u>	10948	}
20 ELM ST., ROCKAYAY,	IU 07866	•		5:- State Ge	nerator's ID		
Generator's Phone ( 201 ) 625/35					SARE		
Transporter 1 Company Name	5.	US EPA ID Numbe					
REPOLA ENTERPRISES. IN	c.   N J D	98660	7949	C. State Tra	ns. ID WINE	n 5 72 17	7
Transporter 2 Company Name	8.	US EPA ID Numbe	r	D. Transpor	ter's Phone (	201 559/1	
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# **ATTACHMENT 4**

ANALYTICAL RESULTS FOR SAMPLES COLLECTED BY NJDEP AT F.G. CLOVER

300226

**Technical Report** 

for

NJDEP
CONTRACT X-085

4	Chain of Custody Data Required for ETC Data Management Summary Reports	
P2316	NJDEP NJDEP PM005 861009 1515	
ETC Sample No.	. Company Facility Sample Point Date Time	Elapsed Hours

John J. Fitzgerald

Vice President Research and Operations



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### SAMPLE NARRATIVE

### General Information Section

This report contains the required deliverables for sample PM005 as identified by client and to be analyzed according to Task II with Tier II deliverables as detailed in NJDEP Contract X-085. For Tier I deliverables, all required information common to multiple samples is contained in a separate standards package and appendices volume. This deliverables package is prepared according to the RFP guidelines and as amended from the March 6, 1986 meeting between NJDEP and ETC representatives.

### Data Qualifiers

Qualifiers used by CLP protocols are not applicable to our database tables. However, this data is available in this package in the form detailed below.

- U. Indicates none detected. Table of results uses ND instead of qualifier.
- B. Indicates target compound found in blank. This information can be observed by comparing "Sample Concentration" column with "Blank Data" column on the sample results table.
- J. Indicates estimated value. This information can be obtained by comparing "Sample Concentration" column with "Method Detection Limit (MDL)" in the next column. On CLP Form 1 tables, "J" is used to indicate values below detection limit. Note that "J" is also used by CLP to indicate that tentative identified compounds are estimates.

#### Sample Extraction

NJDEP required methodologies provide for a variety of extraction cleanups to enhance sensitivity and provide for easier analysis of complex matrices. At NJDEP's request, per March 6, 1986, ETC will not routinely use Gel Permeation Chromatography (GPC) cleanup on Task III and Task IV samples. Since GPC is a standard cleanup procedure for all soils at ETC, some samples may require GPC cleanup, in which case, comments to this will be included here. NJDEP has been informed that omitting this clean-up procedure may result in higher detection limits and poor MS/MSD recoveries.

### Instrument Analysis/Review

Calibration (initial and continuing) is accomplished according to X-085 requirements. It should be noted that a number of target compounds including (but not limited to) nitrosodimethylamine, benzidine, 4-nitrophenol, purgeable gasses etc., will not consistantly be within the requested 30% RSD. This is not a reflection on analysis but on the behavior of the compounds in general.

Note: For all target compounds which are not a CCC or SPCC, where the %RSD exceeds 30%, client may wish to qualify data.

In addition, compounds including (but not limited to) methylene chloride, acetone, methyl ethyl ketone, and phthalate esters are common laboratory contaminants which may cause %RSD to be greater 30%.

Additional unidentified peaks were observed in Pesticides/PCB analysis.

300228

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### **Comments on Specific Fractions**

<u>volatile Organics</u>: During the data review process, it was observed that the sample appeared to have been analyzed at a concentration too dilute (1:100) considering the concentration reported for Methylene Chloride, which was the only compound detected in this sample. Our Analyst attempted to analyze this sample at a higher concentration. However, due to the presence of matrix interference (higher boiler compounds), no results could be obtained for the 1:10 dilution. Results reported therefore, are from the 1:100 dilution.

Base/Neutral/Acid: This sample was originally extracted on 10/17/86 in our QC Batch 5844. Subsequent analysis revealed that apparently, the incorrect spiking solution was used during sample preparation. This spiking solution contained only the compounds required for the EPA/IFB protocol. As a result, this sample required re-extraction. However, since this sample was also used for the B/N/A matrix spike/matrix spike duplicate, insufficient volume remains for re-extraction. We can, therefore, provide only MS/MSD data for the EPA/IFB spiked compounds for this sample.

"This report and all associated data relevent to processing this sample has been reviewed by the QC group of ETC and found to conform (except as noted above) to the requirements outlined in the current version of the NJTASK protocol and/or the most recent CLP protocol (whichever is applicable) as interpreted by ETC."

Signature:

Date:

Results and Supportive Sample Data

OCT 21, 1986

# TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Volatile Compounds - GC/MS Analysis Data (QR01)

300231

Chain of Custody Data Required for ETC Data Management Summary Reports

P2315 NJDEP NJDEP PM005 861009 1515

E189568
ETC Sample No. Company Facility Sample Point Date Time Hours

	Results		QC Rep	licate	QC Blank and Spiked Blank		QC Matrix Spike			
NPDES Number Compound Acratein and Replantation walnuts and parson party.	Sample Concen. ug/l	MOL US/l	First ug/l	Second ug/l	Blank Data ug/l	Concen. Added ug/l	X Recov	Unspiked Sample ug/I	Concen Added ug/I	% Recov
1V Acrolein 2V Acrylonitrile 3V Benzene 4V bis(Chloromethyl)ether 5V Bromoform 6V Carbon tetrachloride 7V Chlorobenzene 8V Chlorodibromomethane 9V Chloroethane 10V 2-Chloroethylvinyl ether 11V Chloroform 12V Dichlorobromomethane 13V Dichlorobromomethane 13V Dichlorobromomethane 14V 1,1-Dichloroethane 15V 1,2-Dichloroethylene 17V 1,2-Dichloropropane 18V cis-1,3-Dichloropropylene 19V Ethylbenzene 20V Methyl bromide 21V Methyl chloride 22V Methylene chloride 23V 1,1,2,2-Tetrachloroethane 24V Tetrachloroethylene 25V Toluene 26V 1,2-Trans-dichloroethylene 27V 1,1,1-Trichloroethane 28V 1,1,2-Trichloroethane 28V 1,1,2-Trichloroethane 31V Vinyl chloride 18V trans-1,3-Dichloropropylene	ND 20 20 20 20 20 20 20 20 20 20 20 20 20	10000 10000 440 1000 470 280 600 310 1000 160 220 1000 470 280 600 500 720 1000 1000 160 380 690 410 600 160 380 1000	784 75.6 75.6 75.6 75.6 75.6 75.6 75.6 75.6	772 73.77 49.70 47.69 47.48.8 49.7449.49.49.49.49.49.49.49.49.548.55 48.553.55.15 48.553.63 48.553.63	. 5555555555555555555555555555555555555			25555555555555555555555555555555555555	800 80.0 50.0 50.0 50.0 50.0 50.0 50.0 5	98 999 95 95 97 101 97 100 98 103 103 1144 110 98 99 103 89 103 89 117 91 98

### Relative Percent Difference (RPD) for VOA

Parameter	REP 1 ug/l	REP 2 ug/l	RPD
Acrolein	784	772	2
Acrylonitrile	75	74	22301882923283252295
Benzene	50	50	. 3
bis(Chloromethyl)ether	ND	ND	0
Bromoform	48	48	. 1
Carbon tetrachloride	48	48	. 8
Chlorobenzene	49	49	. 8
Chlorodibromomethane	. <b>50</b>	50	2
Chloroethane	46	42	9
2-Chloroethylvinyl ether	49	48	2
Chloroform	51	50	3
Dichlorobromomethane	48	48	2
Dichlorodifluoromethane	47	43	8
1.1-Dichloroethane 1.2-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethylene 1.2-Dichloropropane cis-1.3-Dichloropropylene Ethylbenzene	50	50	. 3
1,2-Dichloroethane	50	49	2
l,1-Dichloroethylene	49	49	. 5
1,2-Dichloropropane	49	49	. 2
cis-1,3-Dichloropropylene	51	51	2
Et hy 1 Denzene	49	49	.9
metnyi bromide	69	44	
Methyl chloride	46	46	.4
Methylene chloride 1,1,2,2-Tetrachloroethane	86	53	47
1,1,2,2+letrachioroethane	55	49	13
Tétrachloroethylene Toluene	48 49	48	. 9
ioluene 1 2-Trope-dichlerecthulene	49 49	49 50	• 5
i,Z-irans-dichtoroethytene		48	. 5
1,2-Trans-dichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichlorofluoromethane	49	51	.9 .5 .5 .2
i,i,a-ttachiutucthanc Trichlarachulana	51 45 58	51 51	12
rrichlorofluorometham	43 5 <b>6</b>	51 55	12
Vinyl chloride	46	43	6
trans-1,3-Dichloropropylene	40 49	43 48	6 2

NJDEP PM005 Facility Source

PM005

861009 1515 0 Date Time

Job Number

Account Name

November 18, 1986

### **TABLE 1: QUALITATIVE RESULTS**

Tentatively Identified Organic Compounds - GC/MS Analysis Data - Volatile Fractiion (QR06)

Chain of Custody Data Required for ETC Data Management Summary Reports

P2316 NJDEP NJDEP PM005 861009 1515

Elapsed
ETC Sample No. Company Facility Sample Point Data Time Hours

		Data		Ident	ifiers					
Compound Name	Scan Number	Retention Time (Min)	M.V.	CAS Number	Empirical Formula	Estimated Concen. ug/1				
Tricyclo[3.3.1.13,7] decame	693	28.17	136	281232	C10H16	1800				
2 Unknown	950	38.21				1500				
			•				Not not all the second			
				1.00			7			
		1111								
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -									
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	Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the No. 1 Value to the		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
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300234

October 21, 1986

### **TABLE 1: QUALITATIVE RESULTS**

Tentatively Identified Organic Compounds - GC/MS Analysis Data - Volatile Fraction (QR06)

Chain of Custody Data Required for ETC Data Management Summary Reports

QC5693 BLANK

Elapsed
ETC Sample No. Company Facility Sample Point Date Time Hours

	TO VERY AND A STANDARD		Data		Iden	tifiers		
	Compound Name	Scan Number	Retention Time (Min)	M.W.	CAS Number	Empirical Formula		
None found								
•		in the						
		enga kum me	en en					
	ta protaga							
						-		
:		eg en e						
•	**	- <b>1</b>	·					1
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	No. 1							
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NOV 17, 1986

300235

# TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Acid Compounds - GC/MS Analysis Data (QR02)

Chain of Custody Data Required for ETC Data Management Summary Reports

P2316

NJDEP

NJDEP

PM005

861009 1515

ETC Sample No.

Company

Facility

Sample Point Date

Fime Hours

		Res	ults	QC Rep	licate	QC Blank	and Spiked	Blank	QC Ma	atrix Spike	
NPDES Number	Compaund	Sample Concen. ug/l	MDL ug/l	First ug/l :	Second ug/l .	Blank Data ug/l	Concen. Added ug/l	X Recov	Unspiked Sample ug/l a	Concen Added ug/l	% Recov
1A 2-Chloropheno 2A 2,4-Dichloropl 3A 2,4-Dimethylp 4A 4,6-Dinitro-o 5A 2,4-Dinitrophe 6A 2-NitrophenoI 7A 4-NitrophenoI 8A p-Chloro-m-cr 9A Pentachlorophe 10A PhenoI 11A 2,4,6-Trichlo	henol henol -cresol enol esol enol	888888888888888888888888888888888888888	7.0 5.7 51.89 7.1 6.4 73.27	184 ND ND ND ND 84.5 192 223 102 NO	153 ND ND ND ND 114 305 83.4 ND	25 x 55 55 55 55 55 55 55 55 55 55 55 55			555555 5555555555555555555555555555555	222 0 0 0 0 222 222 222 222 0	83 

P2316 NJDEP Job Number Account Name	NJDEP PMOO Facility Source		9 1515 O Time
RPD Equation : RPD = { (REP1 - REP	2)  *2 / (REP1 + REP2	!}} * 100	
Parameter	REP 1 ug/1	REP 2 ug/1	RPD
2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-o-cresol	184 ND ND ND	153 ND ND ND	18 0 0
2.4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol p-Chloro-m-cresol Pentachlorophenol	ND ND 84 192 223	ND ND 114 144 305	0 0 30 28 31 20
Phenol	102 NO	83 ND	20

NOV 17, 1986

# TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

### BASE/NEUTRAL COMPOUNDS - GC/MS ANALYSIS DATA (QR03)

300237

Chain of Custody Data Required for ETC Data Management Summary Reports

P2316 NJDEP NJDEP NJDEP PM005 861009 1515

E10 Sample No. Company Facility Sample Point Data Time Hours

	Results		QC Replicate		QC Blank and Spiked Blank			QC Matrix Spike		
NPDES Compaind Number	Sample Concen. ug/l	MDL ug/l	First ug/l m	Second ug/l .	Blank Data ug/l	Concen. Added ug/l	X Recov	Unspiked Sample ug/l .	Concen Added ug/l *	% Recov
1B Acenaphthene 2B Acenaphthylene 3B Anthracene 4B Benzidine 5B Benzo(a)anthracene 6B Benzo(b)fluoranthene 8B Benzo(b)fluoranthene 9B Benzo(k)fluoranthene 10B bis(2-Chloroethoxy)methane 11B bis(2-Chloroethoxy)methane 11B bis(2-Chloroisopropyl)ether 12B bis(2-Chloroisopropyl)ether 13B bis(2-Ethylhexyl)phthalate 14B 4-Bromophenyl phenyl ether 15B Butyl benzyl phthalate 16B 2-Chloronaphthalene 17B 4-Chlorophenyl phenyl ether 18B Chrysene 19B Dibenzo(a,h)anthracene 20B 1,2-Dichlorobenzene 21B 1,3-Dichlorobenzene 22B 1,4-Dichlorobenzene 23B 3,3'-Dichlorobenzidine 24B Diethyl phthalate 25B Dimethyl phthalate 26B Di-n-butyl phthalate 27B 2,4-Dinitrotoluene 28B 2,6-Dinitrotoluene 29B Di-n-octyl phthalate 30B 1,2-Diphenylhydrazine 31B Fluoranthene 32B Fluorene	99999999999999999999999999999999999999	4.0 7.4 4.0 94 17.3 21.7 7.4 11.1 12.2 1.0 21.0 21.0 21.0 9.3 21.0 9.4 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	72222222222222222222222222 9	32929299999999999999999999999999999999	556555555555555555555555555555555555555			888888888888888888888888888888888888888	111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	90

NOV 17, 198

# TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

# BASE/NEUTRAL COMPOUNDS - GC/MS ANALYSIS DATA (QR03)

300238

Chain of Custody Data Required for ETC Data Management Summary Reports

P2316 NJDEP NJDEP PM005 861009 1515

ETC Sample No. Company Facility Sample Point Date Time Hours

	Results		QC Rep	licate	QC Blank	and Spiked	Blank	QC Matrix Spike		
NPDES Compound Number	Sample Concen, ug/l	MOL ug/l	First ug/l a	Second ug/l .	Blank Data ug/l	Concen. Added ug/l	% Recov	Unspiked Sample ug/l .	Concen. Added ug/I *	Recuv
33B Hexachlorobenzene 34B Hexachlorobutadiene 35B Hexachlorocyclopentadiene 36B Hexachloroethane 37B Indeno(1,2,3-c,d)pyrene 38B Isophorone 39B Naphthalene 40B Nitrobenzene 41B N-Nitrosodimethylamine 42B N-Nitrosodi-n-propylamine 43B N-Nitrosodiphenylamine 44B Phenanthrene 45B Pyrene 46B 1,2,4-Trichlorobenzene	ND ND ND ND ND ND ND ND ND ND ND ND ND	4.0 1.9 21 3.4 10 4.7 3.4 4.0 21 21 4.0 4.0	ND ND ND ND ND 109 ND 97.9 86.7	ND ND ND ND ND ND 125 ND 92.4 93.5	5665666666666			25 25 25 25 25 25 25 25 25 25 25 25 25 2	0 0 0 0 0 0 0 111 0 0 111	98 88 78

### Relative Percent Difference (RPD) for B/N

P2316 Job Number

NJDEP Account Name NJDEP PM005 Facility Source

861009 1515 O Date Time

Parameter	REP 1 ug/l	REP 2 ug/l	RPI
Acenaphthene	100	104	5
cenaphthylene	ND	ND	0
Inthracene	-ND	ND	0
Benzidine	ND	ND	Q
Senzo(a)anthracene	ND	ND	Q
Senzo(a)pyrene Senzo(b)fluoranthene Senzo(ghi)perylene Senzo(k)fluoranthene sis(2-Chloroethoxy)methane	ND	ND	Q
Benzo(b)fluoranthene	ND	ND	Ō
Benzo(ghi)perylene	ND	ND	Ō
lenzo(k)fluoranthene	ND	ND	ō
is(2-Chloroethoxy)methane	ND	ND	Q
is(2-Chloroethyl) ether	ND	ND	Ŏ
is(2-Chioroethyl) ether is(2-Chioroisopropyl)ether is(2-Ethylhexyl)phthalate	ND	ND	. ŭ
15(2-Ethylnexyl)phthalate .	ND	ND	ŭ
-Bromophényl phényl ether utyl benzyl phthalate	ND	ND	ň
atat beutat butuarase	ND	ND	ŭ
-Chloronaphthalene	ND ND	ND ND	ŭ
-Chlorophenyl phenyl ether		ND ND	V
hrysene	ND ND	ND	Ϋ́
ibenzo(a,h)anthracene	ND ND	ND	×
,2-Dichlorobenzene	ND ND	ND	X
A-Dichlorobenzene	86	92	ĕ
3-Dichlorobenzene 4-Dichlorobenzene 3-Dichlorobenzidine	ND	ND	ň
Nightut abthairte	ND	ND	ň
Active pittiarate	ND .	ND	ň
Diethyl phthalate Dimethyl phthalate Dien-butyl phthalate	82	103	23
2,4-Dinitrotoluene	103	124	18
6-Dinitrotoluene	ÎND	ÑĎ	ĨŎ
i-n-actul anthalate	ND	ND	ŏ
i-n-octyl phthalate   2-Diphenylhydrazine   luoranthene	ND	ND	ŏ
Inoranthene	ND	ND	ă
luorene	NĎ	ND	Ŏ
lexachlorobenzene	ND	ND	Ŏ
lexachlorobut adiene	ND	NĎ	Ō
lexachlorocyclopent adiene	ND	ND	Ō
lexachloroethane	ND	ND	500000000000000000000000000000000000000
Indeno(1,2,3-c,d)pyrene	ND	ND	Ō
sophorone	ND	ND	Ō
laphthalene	ND	ND	Ö
litrobenzene	ND	ND	0
I-Nitrosodimethylamine	ND	ND	0
I-Nitrosodi-n-propylamine	109	125	14

### Relative Percent Difference (RPD) for B/N

***************************************				
P2316 NJDEP Job Number Account Name	NJDEP PMOD Facility Source		1515 O Time	
RPD Equation : RPD = ( (REP1 - REP2)				
Parameter	REP 1 ug/l	REP 2 ug/1	RPD	
N-Nitrosodiphenylamine Phenanthrene Pyrene 1,2,4~Trichlorobenzene	ND ND 98 87	ND ND 92 93	0 0 6	

November 18, 1986

300241

### **TABLE 1: QUALITATIVE RESULTS**

# Tentatively Identified Organic Compounds - GC/MS Analysis Data - B/N/A Fraction (QR08)

Chain of Custody Data Required for ETC Data Management Summary Reports

P2316 NJDEP PM005 861009 1515

Elapsed
ETC Sample No. Company Facility Sample Point Date Time Hours

		Data			tiflers	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Compound Name	Scan Number	Retention Time (Min)	M.V.	CAS Number	Empirical Formula	Estimated Concen. ug/1	
l Benzene, methyl≭	13	2.51	92	108883	C7H8	129	
2 Unknown≭	110	4.52		<del>-</del>	=	5	
3 Heptane, 2,6-dimethyl	144	5.22		1072055		184	
4 Unknown	153	5.40		<del>-</del>		94	
5 Alkane	196	6.28		*	CnH2n+2	2560	
6 Unknown	210	6.56				85	
7 Unknown	220	6.76	•			217	
8 Unknown	228	6.93	***************************************			406	
9 Alkane	235	7.07				294	
10 Unknown	241	7.19				1150	<b>9</b> )
11 Benzene, ethyl-methyl	271	7.81	120		CgH12	1580	
12 Unknown	249	7.36		•		698	
13 Unknown	284	8.07				4030	
14 Unknown	336	9,13				7740	
15 Unknown	522	12.94		-		875	
		Y					

300242

November 18, 19:

# **TABLE 1: QUALITATIVE RESULTS**

# Tentatively Identified Organic Compounds - GC/MS Analysis Data - B/N/A Fraction (QR08)

Chain of Custody Data Required for ETC Data Management Summary Reports
P2316 NJDEP NJDEP PM005 861009 1515
E1apsed
ETC Sample No.: Company Facility Sample Point Date Time Hours

		Data		Ident	ifiers			
Compound Name	Scan Number	Retention Time (Min)	M.W.	CAS Number	Empirical Formula	Estimated Concen. ug/l		
16 Unknown	525	13.00	•			767		
17 Unknown	550	13.51	-			4840	:	
18 Unknown	562	13.76 .				1800		
19 Unknown	566	13.84		Manager and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	weeks and the second has	592		
20 Unknown	578	14.08				494		
21 Unknown	585	14.23				447		
22 Unknown	589	14.31				937		
23 Unknown	594	14.41				446		
24 Unknown	599	14.51				978		
25 Unknown	606	14.66				1400		
26 Naphthalene, methyl	620	14.94	142		CI IHIO	1180		
27 Unknown	629	15.13				1400		
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300243

November 18, 1986

# **TABLE 1: QUALITATIVE RESULTS**

Tentatively Identified Organic Compounds - GC/MS Analysis Data - B/N/A Fraction (QR08)

Chain of Custody Data Required for ETC Data Management Summary Reports

OC5844 - BLANK

ETC Sample No.

Company

acility

Sample Point

Time

Date

Elapsed Hours

			Data		Ident	ifiers	·	, x	Â
	Compound Name	Scan Number	Retention Time (Min)	M.V.	CAS Number	Empirical Formula	Estimated Concen. ug/l		
l Benzene, meth		23	2.56	77 7 <b>92</b> - A	108883	С7Н8	20 ,		
2 Tetrachloro e	thene To A SAME TALL!	77% <b>66</b> % (80	3.44	- 5-164 1759	127184	C2C14	30	1.2	
3 Unknown	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	人性121% 组织	4.56		z . <del></del>	•	95		
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OCT 24, 198

# TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Conventional Analysis Data (QR10)

Chain of Custody Data Required (		
	Sulumary Reports	
P2316 NJDEP  ETC: Sample: No. Company	or ETC Data Management Summary Reports NJDEP PM005 861009 1515	
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NPDES Number	Sample Conten mg/l	MOL ms/l							
Petroleum Hydrocarbons (IR)	4.7	.5							
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# CHAIN OF CUSTODY

Company: NJDEP	Job No
Address	
·	
Attention:	
Sample Description: SAMPLES	
CUSTOMER ID DESCRIPTION	ETC #
PM 005 (1) (2) 950 ML NON-ETC BO	OTTLES PASIG
PM 005 (1) 450ML NON-ETC	Bottles P2315
•	
·	
Sample(s) Relinquished by: 1 homes do	
	hue
	-
Sample(s) Received by: mach lefstadt	
Time: 16:30 P Date: 10/16/86	-
•	
204 RARITAN CENTER PARKWAY . EDISON, NJ 08437	(201) 225-5600



ENVIRONMENTAL TESTING and CERTIFICATION **ETC** 

NOV 1, 1986

# TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Volatile Compounds - GC/MS Analysis Data (QR01)

Chain of Custody Data Required for ETC Data Management Summary Reports

P2315

NJDEP

NJDEP

PM006

861009 1515

ETC Sample No.

Company

Fecility

Semple Point

Clapsed

	Res	ults	QC Rep	licate	QC Blank	and Spiked	Blank	QC M	atrix Spik	e
NPDES Number Compound Acratein and Acrylanitrite values are parson anity.	Sample Concen. ug/l	MDL ug/l	First ug/l	Second ug/l	Blank Data ug/l	Concen. Added ug/l	X Recov	Unspiked Sample ug/l	Concen. Added ug/l	Recui
IV Acrolein 2V Acrylonitrile 3V Benzene 4V bis(Chloromethyl)ether 5V Bromoform 6V Carbon tetrachloride 7V Chlorobenzene 8V Chlorodenzene 9V Chloroethane 10V 2-Chloroethylvinyl ether 11V Chloroform 12V Dichlorobromomethane 13V Dichlorobromomethane 13V Dichlorodifluoromethane 14V 1.1-Dichloroethane 15V 1.2-Dichloroethane 16V 1.1-Dichloroethylene 17V 1,2-Dichloropropane 18V cis-1,3-Dichloropropylene 18V cis-1,3-Dichloropropylene 19V Ethylbenzene 20V Methyl bromide 21V Methyl chloride 22V Methylene chloride 23V 1.1.2.2-Tetrachloroethane 24V Tetrachloroethylene 26V 1.2-Trans-dichloroethylene 27V 1.1.1-Trichloroethane 28V 1.1.2-Trichloroethane 29V Trichlorofluoromethane 31V Vinyl chloride 31V Vinyl chloride 31V Vinyl chloride	225222222222222222222222222222222222222	2000 2000 88 200 94 56 120 200 200 32 44 200 94 56 120 140 200 200 56 140 32 76 100 32 200 200 200 200 200 200 200 200 20	860 9493-1-38 556-863-557-766-1-988-7-044-3-1-9-1-865-3-7-8 447-456-1-988-7-044-3-1-9-1-865-3-7-8 448-448-448-4-1-9-1-865-3-7-8	1055 1055 1055 1055 1055 1055 1055 1055	222222222222222222222222222222222222222			~ 555555555555555555555555555555555555	800 000 000 000 000 000 000 000 000 000	107 116 99 113 102 99 107 95 90 101 91 94 100 92 113 104 98 88 98 107 99 113 99 100 99 100 99 100 99 100 99 99 99 99 90 90 90 90 90 90 90 90 9

# ATTACHMENT 5 ANALYTICAL RESULTS.FOR METAL CHIP SAMPLES



# MATERIALS EXPERTISE, INC.

1275 BLOOMFIELD AVENUE + FAIRFIELD, NEW JERSEY 07004 + (201) 227-9544 + FAX (201) 967-8240

September 10, 1990

Klockner & Klockner 164 Franklin Avenue Rockaway, NJ 07866-0287

Attention: Mr. Joe Klockner

Ref: MEI Log #8304

Subject: Submitted samples of metal curnings

Sample #1: labeled as taken from below grade Sample #2: labeled as taken from above grade (surface sample)

TOTAL COC BAMPIC,

Work requested: Identification of the basic composition.

### Results:

	Sample #1	Sample #2
	(below grade).	(above grade).
	Semi-quantitative	Semi-quantitative
Element	estimates	<u>estimates</u>
Iron	.033%	.03~.3%
Silicon	.1-1	.1-1
Magnesium	.033	.033
Manganese	.1-1	.1-1
Nickel	.0001001	.0001001
Copper	.1-1	.1-1
Zinc	.011	.033
Titanium	.00505	.00505
Aluminum	Balance	Balance

No other elements detected.

### Comments:

- 1) The samples were <u>aluminum</u> base, almost identical and contained only small amounts of other elements.
- 2) It is possible to analyze further by performing a quantitative analysis for the elements found, if desired.

If we can be of further assistance, please do not hesitate to call.

Respectfully submitted, MATERIALS EXPERTISE, INC.

Milton S. Schwartz, M.S. Metallurgical Engineer

MSS:bac

# ATTACHMENT 6

NJDEP-BFO INSPECTION REPORT FOR MASDEN INDUSTRIES



# NEV SEY DEPARTMENT OF ENVIRONMENTAL PRO TION DIVISION OF WASTE MANAGEMENT

300250

Page 1 of 4

INVESTIGATION 3002

CASE #: 85-12 -24 - 02N	DWM FILE #: 14 - 34 - 09
	TIME ARRIVED: 1315
INVESTIGATOR:Carolyn Clark/Rich Collister	
LOCATION: Masden Industries Inc	PROPERTY OWNER: Klocner & Klocner
ADDRESS: 20 Elm Street	MAILING ADDRESS: 164 Franklin Ave
Rockaway, New Jersey 07866	Rockaway, New Jersey
LOCATION TELEPHONE #: (201) 625-3500	BLOCK: 5 LOT: 6
EPA ID #: <u>NJD001476092</u>	
LOCAL HEALTH DEPT. REP. Mr. Ferdinando	TELEPHONE #: 361-8200
ORIGIN OF COMPLAINT: Incident report filed b	Y ECRA TELEPHONE #:
NATURE OF COMPLAINT: Storage shed containing	hazardous substances unclaimed by occupant
PHOTOGRAPHS TAKEN:none	SAMPLE #:
FINDINGS.	ction of the above stated facility was done
to investigate the storage of hazardous subst	ances in a metal storage shed on the
property. We met with David T. Landsittel.	
There are four companies operating at 20	Elm St with Masden Ind. Inc. as the parent
Co. of Multiform Metals Inc. Dynaglass Inc.	and Graphamics Engineering Inc. are the
two other companies operating in the same mai	n production area. The relationship
between Masden Ind. Inc and the latter two co	mpanies are common ownership. Attached is
an explaination of what each of the four comp	anies does.
WASTES GENERATED: According to Mr. Landsitt	el no hazardous wastes are generated at
this location. The reason an EPA ID # was ob	tained was in order to dispose of material
found approximately three years ago when all	four companies were brought to this location
The waste was shipped off site with a manifes	
The waste was shipped off site with a manifes additional shipment of manifested waste was d	t; a copy of which will be sent to BFO. An
additional shipment of manifested waste was d	t; a copy of which will be sent to BFO. An one in followup to NOV and AO regarding
additional shipment of manifested waste was d May 13, 1985 and June 17, 1985 BFO inspection	t; a copy of which will be sent to BFO. An one in followup to NOV and AO regarding s. A copy of the manifest is attached.
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### NEW JE 7 DEPARTMENT OF ENVIRONMENTAL PROTE-DIVISION OF WASTE MANAGEMENT

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Page 2 of 4

### **INVESTIGATION**

CASE #_	85	_ 12	_ 24	_ 02N
DATE:	1-	-6-86		

	DATE: 1-6-86
FINDINGS AND SUMMARY:	
Permits: Mr Landsittel was not aware of any permits	with NED for the following
equipment: an exhaust fan over a Triethylene glycol	the first and a subject to the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the
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	□ 特別 (1) (物質 ) (新台) (新台) (計)
by Mr. Landsittel), and a furnace for drying glass to	uoing uynagiass, inc operations/
which is vented to outside,	
Site Inspection:	
A) On the inside east wall of the production area is	an exhaust hood over a Triethylene
glycol bath used to melt sugar in the bottom of glass	s tubes (Dynaglass, Inc). The
triethylene glycol is kept in a container adapted by	cutting a 55 gal drum horizontally
to create a 6" deep tub. According to Mr. Landsitte	1 the bath has not been drained
that he can remember. Approximately 5 gal of Trieth	ylene glycol lasts an entire year
due to minimal evaporation.	
B) To the left side of the hood is a sump pump which	h collects non-contact cooling
water from a vacuum pump then pumps it into a storage	e drain.
Outside Inspection:	
C) A 6" white PVC pipe empties into a storm sewer, the	he pipe runs horizontally along
the east side of the building and is fed by four ver	, Mg (11 - ∞) .ida 5 (14 i - 15 - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17 i - 17
were traced back through the building and appear to o	A district on the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
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large puddle of ice in the yard.	
D) At the southeast corner of the building is a bag	house with four filter bags to
collect carbon dust from GraphamicsEngineering Inc.	operations Below and around the
filter bags a few inches depth-6'area) plastic share	vings similar in appearance to 1"
lengths fo curled cassette tape. This material was e	
plastic parts and allowing scrap to go through the fi	· Tan Na Na Na Na Na Na Na Na Na Na Na Na Na
E) Two box trailers contain old equipment  F) Under the two box trailers are the remains of a december of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the contains of the	
and an empty drum which has been used as a shipping of	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
G) Additional debris in the yard include wooden skid	
which Mr. Landsittel claims was left on the site by a	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

H) A metal storage shed is set on a cement berm with skids in the bottom over the asphalt parking area. The list of the contents in the shed is attached. As noted on the

list Mr. Landsittel claimed two boxes of substances (not wastes) are to be shipped to

n DWM-051 .	А
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# NEW JL .Y DEPARTMENT OF ENVIRONMENTAL PROTE DIVISION OF WASTE MANAGEMENT

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Page	of	

# INVESTIGATION

	CASE # 85 - 12 - 24 - 02N
	1-6-86
•	DATE.
INDINGS AND SUMMARY:	· · · · · · · · · · · · · · · · · · ·
Haiti. He also said he didn't know where any	of the rest of the substances came from
and claimed they were not Masden Industries wa	ste. One container has a label showing
Dynaglass Inc. name, two had labels of substan	ces which also appear on the Hazardous
Substance Ovestionaire submitted to the Boroug	h of Rockaway.
Summary:	1、独身重量。11、44年(1
No hazardous waste violations were found.	Athough hazardous substances are
contained in the shed because Mr. Landsittel o	- 1 - ● ●
material. A field NOV was not issued.	
During a negotiating meeting between BC&E	and Masden held on 1-9-86 Mr Tandsitte
agreed to remove all substances from the shed	· · · · · · · · · · · · · · · · · · ·
done on 1-15-86. Copy attacked	
Olf Olf Talacon	

# NEW \_RSEY DEPARTMENT OF ENVIRONMENTA\_ ROTECTION DIVISION OF WASTE MANAGEMENT

# **INSPECTION REPORT**

### **SKETCH**

	NAME OF FACILITY Masden Industrics Inc	DATE 1-6-86
	INSPECTOR Carelyn Clark Belongs to	adjacent Bldg.
		Door
and the second	Quenest Cook	putside exhaust  filter bags courbon  plastic shavings  stood-Triethylene glycol
	( a ble )	MASDEN INDUSTRIES
	Tce puddle book trailers	Thorizontal  PVC drain pipe
de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'annu de l'a	Storage drum  shed set church  on cement shipping  container	verticle PVC pipe joint broken to honz. lin
	berm- skids inside with misc hazardous substances in poor containers	office entr
	> ladder Wooden Skids	Storm drain
	chamed Sheet Metal  ett Japanet work-  perty source  known source	Frea _
my un	4 Dumpster	Parking frea V
	Policastro Service Inc. 584-9080	300233

M	F	0
SVE	-	

### NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO BC&E	_ DATE
FROM Carolyn Clark through Donna Dawson	MAN AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR
SUBJECT Masden Industries, Inc.	

On January 15, 1986 between 1000 hours and 1130 hours a follow-up inspection was done in order to verify clean-up of hazardous substances noted during 1-6-86 inspection and discussed at 1-9-86 BC&E meeting. (See memos in file regarding these dates). During the inspection I was accompanied by Rai Belonzi and Rich Collister of BC&E. We met with Mr. David Landsittel prior to field inspection; he did not accompany us.

Mr. Landsittel provided copies of shipping papers (attached) used to ship materials in 1983 to Haiti. This shipment had been understood at the last meeting to be hazardous waste which was manifested as waste. It was stated at the 1-15-86 inspection that the material was shipped for use in their Haiti facility. Mr. Landsittel said this was agreeable to all parties involved at the time. Names of DEP personnel are unknown. An inspection was done of the inside of the plant and the shed outside. Attached is a list of the materials originally found in the shed (1-6-86 inspection) and their current or proposed status.

Regarding the wastes that are still in the shed; Masden is not taking responsibility for them and has spoken to the property owner about them. Masden has offered the use of their EPA ID# to the property owner providing the owner pays for disposal. Rai Belonzi explained to Mr. Landsittel that the generator is responsible for the waste if any questions or problems should arise during or following their disposal.

Mr. Landsittel would like to delist but was advised that delisting could not be granted until there is no waste on site irregardless of whether Masden claimed the waste did not belong to them.

meaction of 17/86 \* Mr La sittel said these are to be Shipped to Heat + Dynaglass is some awareship as Masula Whates found in shed X Substances on Masden Ind. fire dept report 1- 55 gal with drumpump-empty 1 - 55 gal multi surpese year oil - material in it. 1- 55 gal unknown substance in it 1- 5 gal pail Acetic Acid 1 - 20 gal fiber drum - Copper Ganide 2 - 90 16. Carbonys - Ammonium Hydroxide 1 - 20 gal fiber drum - Rodine 50 5-5 pint containers Mydrockloric Acid 1 - 5 pint container Sulfuric Acid 3 - cardboard boxes unknown contents 1 - ~20 gal leg like container - oxidizer 1- 20 gal-black plastic drum made out to Dynagins Inc 1- 20 gal-white plastic container Fluoboric acad 1- 5 gal plastic bottle - 12 full red liquid 1- 55 gal fiber drum with 35 white powder and a 5 gal empty clear plastic bottle sitting inside on powder 1- 55 gal miscellaneous material -.. 1- 20 gal fiber drum - paper + lab ware debris 1-20 gal - rusted drum, label not readable 2-5 gal pails stacked one ontop other; "Oxidizer" on top; white chystal formed material protruding from narums, bottom drum rusted ino label visible 1- white styrofoan pack - retric acid

New Jersey Department of Environmental Protection

Waste	Managemen	t Inves	stigation

Inspector: B. CZACHUR Date: 06/17/85 Person Contacted: DAVID SANDSITTEL
Location: MASDEN INDUSTRIES INC. Telephone: 201-625-3500  Address: 20 ELM STR, EPA I.D.# N-7DUDIF-76092  ROCKAWAY, N.T. 01866 Property Owner: KLOCNER & KLOCNER  Owner's Address: 164 FRANKLYN AVE
Block: 5 Lot: 6 RECKAWAY N.J.  Health Department Representative Contacted: CLEMENT FERDINANDEPhone #: 361-8200
Complaintant: <u>1'6-7e # 85-04-19-02N</u>
Complaint: RANDULPH TOWNHIP HEALTH DEPARTMENT
Photographs Taken No Sample Numbers No Sample Numbers
- On Monday, 06/17/85 the DEP - DWM inspector GAKY BEDRISA
and I conducted a fellow up investigation, of the
MASDEN INDUSTRIES Inc!, located at 20 ELM STK,
ROLKHUMY. NJ in response to the case #85-04-19-021
On site we met MR. DAVID LANDSITTEL a Compony's
represident who informed as on following:
) Attached copy of the letter for the company
To Rockoway Borough authorities describes exactly
the type of business and operations conducted or sit
2) The company closes not generate a hazardous.
phoste. The EPA ID number was obtained for one
time shippment of worte and it was not used because
The moterial was shipped to the another facility
located on Hoiti. Copies of morine shipping papers
ore attached.
-3) IN onnual generators report submitted to the DEP
company stated that they are not generating

HW/EF # Date: 06/17/85 Incident Report #: 35-0 -19-02N 300257 Subject: MASDEN INDUSTRIES INC. Page 2 of 3 Findings and Summary: hozardous waste, but they did not ECNID CHRNETT and - Waste occept the waste because there is 1 observed significantly improved the housekeeping dock which appeared in noted during box. in con securobince the N.T. Hoz. Waste Regula violations were noted: securely closed were four) secumulation Contriner.

Date: 06/17/85 Incident Report #: 85 - 1-19-62 N Page <u>3</u> of <u>3</u> Subject: IMASDEN INDUSTRIES Inc. Findings and Summary: 58:10-23.11 - discharge a unimolentified trovel inay openings / the spill oldys recommenda hey choim 2) MR. DAVID LANDSITTEL was recommended bur your as possib Hor. Work routact needs aug three\_ bed conditions sever openings ohnms on additi 0 155M no person vuste in manner whice they discharge of this 300258

Form DWM-008 B 3/83

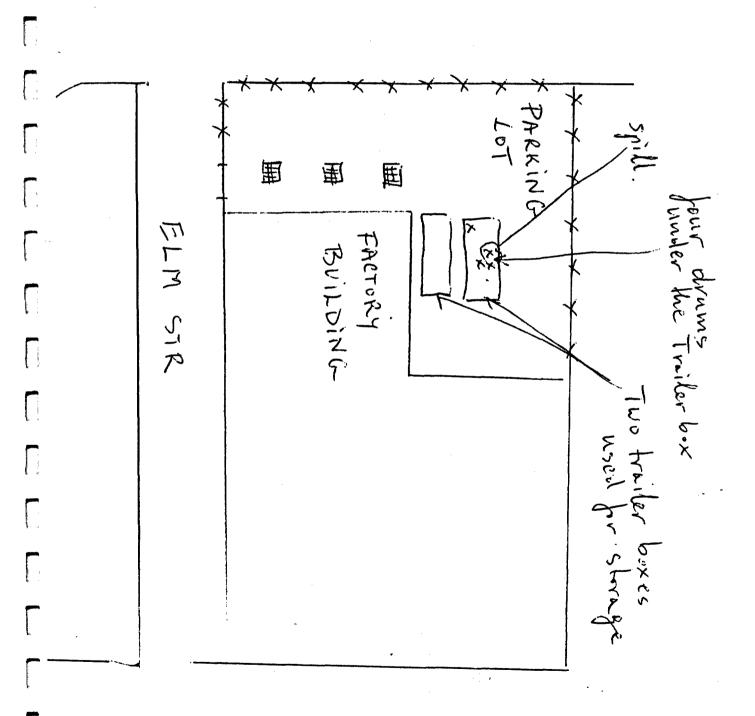
# NEW. RSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

### **DIVISION OF WASTE MANAGEMENT**

### INSPECTION REPORT

**SKETCH** 

NAME OF FACILITY MASDEN IND. INC. DATE 06/17/85 INSPECTOR B. CZACHUR



ATTACHMENT 7

NJDEP INCIDENT REPORT

1-72

### INCIDENT REPORT

	D.W.M. ASSIGNED CASE NUMBER SIGN-CI4-LIG-CI24 HOT LINE	☐ INDEXED □
	DATE 614-61 TIME (Military) D.W.M. ID	1NO. 1321311 1/7.
	INCIDENT REPORTED BY:	
Lii	NAME PETER BILDY	-361-82CO
	AFFILIATION HEALTH DEPT	CODE
_	STREET	
	RICKAWAY PARVICLAH HERLIH	STATE ZIP CODE
	INCIDENT LOCATION:	
	NAME MASDEN'I FA'P	PHONE 25-35 CC
	STREET 241 FLM ST	UTM VERT UTM HORIZ
	CITY ROCKAMAN BONY	STATE ZIP CODE
	SOURCE OF SPILLED AND/OR DISCHARGED SUBSTANCE: Confirmed  Allege	ed 🗆 More Than 1 Source 🗀
	COMPANY NAME	PHONE
	CONTACT SAME TITLE	
	STREET	DEP COMPANY NO.
-	CITY COUNTY	STATE ZIP CODE
	SUSPECTED SPILLED AND/OR DISCHARGED SUBSTANCE: Confirmed  Allege	
		TANINATED SUBSTANCE NO.
	AMOUNT SPILLED 5.5 CAL UNITS A/P/E	YELLU SILIGIM
	2. 644. LEAD/TIN SOLUTION	SUBSTANCE NO.
	AMOUNT SPILLED / UNITS LIGHT L	S/L/G/M 
(	DATE OF INCIDENT TIME (Military) TEMP. WEATHER	WIND (Dir. & Vel.)
	DATE OF INCIDENT  TIME (Military)  TEMP. WEATHER  SPILL ORIGIN	CODE
_	or lee origin	L